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

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**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,1950     *Styles in Painting* Vsesoiuznaia konferentsiia po biokhimmii nervnoi sistemy (2d : 1957 : Kiev),1963     Styles in Painting Paul Zucker,1950     **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 October 2021 It provides comprehensive coverage of the latest advances and trends in information technology science and engineering addressing a number of broad themes including novel machine learning and big data analytics methods for IoT security data mining and statistical modelling for the secure IoT and machine learning based security detecting protocols which inspire the development of IoT security and privacy technologies The contributions cover a wide range of topics analytics and machine learning applications to IoT security data based metrics and risk assessment approaches for IoT data confidentiality and privacy in IoT and authentication and access control for data usage in IoT Outlining promising future research directions the book is a valuable resource for students researchers and professionals and provides a useful reference guide for newcomers to the IoT security and privacy field

*Saddharma-Puṇḍarīka* ,1963 The Saddharma Pu ar ka The Lotus of the True Law one of the Mahayana sutras is perhaps the single most important Mahayana Buddhist work Composed originally in India some sections written as early as the beginning of the Christian era the Lotus is held in enormous esteem by the Northern schools of Buddhism and by Chinese and Japanese Buddhists particularly Tendai and later developments Described as the most eminent of all the sutras the crown jewel in which all Buddha laws are succinctly taught the Lotus is a keystone in the education of every serious Buddhist This sutra is essentially a collection of responses explanations ex cathedra lectures and the like bearing chiefly upon metaphysical issues the nature of Buddhahood the concept of nirvana the Bodhisattva ideal the rewards of the faithful and other theoretical matters that have become essential dogma in all Buddhist schools that have since arisen A transfiguration of the traditional Buddha situation is presented the historical Buddha the Tathagata or Sakyamuni is seen in his eternal supernatural aspect he sits surrounded by an array of gods arahats demons bodhisattvas gandharvas monks and nuns all eager to hear the infinitely wise utterances of the Great Teacher The revelations are made sometimes by Sakyamuni addressing his historical sangha including Ananda Sariputra Kasyapa et al and at other times by the Buddhas of the past and the future Manjusri and Maitreya This edition contains the complete translation of the Lotus rendered from Sanskrit by Professor Kern He has also written a critical introduction to the work and has clarified and supplemented the text by means of numerous footnotes Publisher s description     *Proceedings of International Joint Conference on Computational Intelligence* Mohammad Shorif Uddin,Jagdish Chand Bansal,2020-05-22 This book gathers outstanding research papers presented at the International Joint Conference on Computational Intelligence IJCCI 2019 held at the University of Liberal

Arts Bangladesh ULAB Dhaka on 25 26 October 2019 and jointly organized by the University of Liberal Arts Bangladesh ULAB Bangladesh Jahangirnagar University JU Bangladesh and South Asian University SAU India These proceedings present novel contributions in the areas of computational intelligence and offer valuable reference material for advanced research The topics covered include collective intelligence soft computing optimization cloud computing machine learning intelligent software robotics data science data security big data analytics and signal and natural language processing

**A Study of Bundi School of Painting** Jiwan Sodhi,1999

**Data Analytics for Cultural Heritage** Abdelhak Belhi,Abdelaziz Bouras,Abdulaziz Khalid Al-Ali,Abdul Hamid Sadka,2021-03-25 This book considers the challenges related to the effective implementation of artificial intelligence AI and machine learning ML technologies to the cultural heritage digitization process Particular focus is placed on improvements to the data acquisition stage as well as the data enrichment and curation stages using advanced artificial intelligence techniques and tools An emphasis is placed on recent applications related to deep learning for visual recognition generative models natural language processing and super resolution The book is a valuable reference for researchers working in the multidisciplinary field of cultural heritage and AI as well as professional experts in the art and culture domains such as museums libraries and historic sites and buildings Reports on techniques and methods that leverage AI and machine learning and their impact on the digitization of cultural heritage Addresses challenges of improving data acquisition enrichment and management processes Highlights contributions from international researchers from diverse fields and subject areas

**Computer Vision - ECCV 2014 Workshops** Lourdes Agapito,Michael M. Bronstein,Carsten Rother,2015-03-18 The four volume set LNCS 8925 8926 8927 and 8928 comprises the refereed post proceedings of the Workshops that took place in conjunction with the 13th European Conference on Computer Vision ECCV 2014 held in Zurich Switzerland in September 2014 The 203 workshop papers were carefully reviewed and selected for inclusion in the proceedings They were presented at workshops with the following themes where computer vision meets art computer vision in vehicle technology spontaneous facial behavior analysis consumer depth cameras for computer vision chlearn looking at people pose recovery action interaction gesture recognition video event categorization tagging and retrieval towards big data computer vision with local binary pattern variants visual object tracking challenge computer vision ontology applies cross disciplinary technologies visual perception of affordance and functional visual primitives for scene analysis graphical models in computer vision light fields for computer vision computer vision for road scene understanding and autonomous driving soft biometrics transferring and adapting source knowledge in computer vision surveillance and re identification color and photometry in computer vision assistive computer vision and robotics computer vision problems in plant phenotyping and non rigid shape analysis and deformable image alignment Additionally a panel discussion on video segmentation is included

**A Comparative Analysis of Individual Painting Styles of Selected Artists and Students** Barbara Marx Fife,1958

**Computer Vision - ECCV 2020 Workshops** Adrien Bartoli,Andrea Fusiello,2021-01-02 The 6

volume set comprising the LNCS books 12535 until 12540 constitutes the refereed proceedings of 28 out of the 45 workshops held at the 16th European Conference on Computer Vision ECCV 2020. The conference was planned to take place in Glasgow UK during August 23-28 2020 but changed to a virtual format due to the COVID-19 pandemic. The 249 full papers, 18 short papers and 21 further contributions included in the workshop proceedings were carefully reviewed and selected from a total of 467 submissions. The papers deal with diverse computer vision topics. Part II focusses on commands for autonomous vehicles, computer vision for ART analysis, sign language recognition, translation and production, visual inductive priors for data efficient deep learning, 3D poses in the wild, challenge map based localization for autonomous driving, recovering 6D object pose and shape recovery from partial textured 3D scans. *Man-Machine-Environment System Engineering* Shengzhao Long, Balbir S. Dhillon, 2022-08-20. *Man Machine Environment System Engineering Proceedings of the 22nd Conference on MMESE* are an academic showcase of the best papers selected from more than 500 submissions introducing readers to the top research topics and the latest developmental trends in the theory and application of MMESE. This proceedings are interdisciplinary studies on the concepts and methods of physiology, psychology, system engineering, computer science, environment science, management, education and other related disciplines. Researchers and professionals who study an interdisciplinary subject crossing above disciplines or researchers on MMESE subject will be mainly benefited from this proceedings. MMESE primarily focuses on the relationship between Man, Machine and Environment, studying the optimum combination of man-machine-environment systems. In this system, Man refers to working people as the subject in the workplace, e.g. operators, decision makers. Machine is the general name for any object controlled by Man, including tools, machinery, computers, systems and technologies. Environment describes the specific working conditions under which Man and Machine interact, e.g. temperature, noise, vibration, hazardous gases, etc. The three goals of optimization of the man-machine-environment systems are to ensure safety, efficiency and economy. The integrated and advanced science research topic, Man-Machine-Environment System Engineering (MMESE), was first established in China by Professor Shengzhao Long in 1981 with direct support from one of the greatest modern Chinese scientists, Xuesen Qian. In a letter to Shengzhao Long from October 22nd 1993, Xuesen Qian wrote: "You have created a very important modern science and technology in China."

**Kokka**, 1916. Image Analysis and Processing - ICIAP 2023 Workshops Gian Luca Foresti, Andrea Fusiello, Edwin Hancock, 2024-01-20. The two volume set LNCS 14365 and 14366 constitutes the papers of workshops hosted by the 22nd International Conference on Image Analysis and Processing (ICIAP 2023) held in Udine, Italy, in September 2023. In total, 72 workshop papers and 10 industrial poster session papers have been accepted for publication. Part II of the set, volume 14366, contains 41 papers from the following workshops: Medical Imaging Hub, Artificial Intelligence and Radiomics in Computer Aided Diagnosis (AIR-CAD), Multi-Modal Medical Imaging Processing (M3IP), Federated Learning in Medical Imaging and Vision (FedMed), Digital Humanities Hub, Artificial Intelligence for Digital Humanities (AI4DH), Fine Art Pattern Extraction and

Recognition FAPER Pattern Recognition for Cultural Heritage PatReCH Visual Processing of Digital Manuscripts Workflows Pipelines BestPractices ViDiScript Mogollon Culture in the Forestdale Valley, East-Central Arizona Emil W.

Haury,2015-11-01 Forestdale did more than any other single area to validate the emerging concept of a separate Mogollon culture and in this compilation Haury provides the reader with not only the complete archaeological picture of this valley but also the history of the developemtn of the concept Any Southwestern archaeologist and readers who want to stay abreast of the details of Nroth American prehistory should read this book American Antiquity Classic site reports establish the Mogollon on their own cultural track distinct from the Anasazi and also document the earliest known association of tree ring dates with pottery in the Southwest The excavations of Mogollon sites reported on in this volume were conducted at the early 1939 1941 field schools in Forestdale Arizona **Between Two Cultures** Wen Fong,Metropolitan Museum of Art (New York,

N.Y.),2001 The first comprehensive assemblage in the West of paintings on this subject the Robert H Ellsworth Collection comprises works in the classical Chinese medium of ink on paper and in the traditional formats of scrolls album leaves and fans BOOK JACKET Mobile Peoples - Permanent Places: Nomadic Landscapes and Stone Architecture from the

Hellenistic to Early Islamic Periods in North-Eastern Jordan Harmen O. Huigens,2019-10-31 This study explores the relationship between nomadic communities in the Black Desert of north eastern Jordan c 300 BC and 900 AD and the landscapes they inhabited and extensively modified This book focuses on the architectural features created in the landscape some 2000 years ago which were used and revisited on multiple occasions **Proceedings of the 2nd International**

**Conference on Internet, Education and Information Technology (IEIT 2022)** Ahmed El-Hashash,Fonny Dameaty Hutagalung,Ahmed Said Ghonim,Kun Zhang,2023-02-10 This is an open access book As a leading role in the global megatrend of scientific innovation China has been creating a more and more open environment for scientific innovation increasing the depth and breadth of academic cooperation and building a community of innovation that benefits all These endeavors have made new contribution to globalization and creating a community of shared future To adapt to this changing world and China s fast development in this new area the 2nd International Conference on Internet Education and Information Technology IEIT 2022 is to be held in April 15 17 2022 This conference takes bringing together global wisdom in scientific innovation to promote high quality development as the theme and focuses on research fields including information technology education big data and Internet This conference aims to expand channels of international academic exchange in science and technology build a sharing platform of academic resources promote scientific innovation on the global scale improve academic cooperation between China and the outside world It also aims to encourage exchange of information on research frontiers in different fields connect the most advanced academic resources in China and abroad turn research results into industrial solutions bring together talents technologies and capital to boost development aaaa **Science** John Michels (Journalist),1908 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN

0018 0120 1st 15th meeting      **Lydian Painted Pottery Abroad** R. Gül Gürtekin-Demir, 2021-10-15 This book is the first major study of Lydian material culture at Gordion and also the first published monograph on Lydian painted pottery from any site excavation Richly illustrated it provides a comprehensive definition and analysis of Lydian ceramics based on stylistic archaeological and textual evidence while thoroughly documenting the material's stratigraphic contexts The book situates the ceramic corpus within its broader Anatolian cultural context and offers insights into the impact of Lydian cultural interfaces at Gordion The Lydian pottery found at Gordion was largely produced at centers other than Sardis the Lydian royal capital although Sardian imports are also well attested and began to influence Gordion's material culture as early as the 7th century BCE if not before Following the demise of the Lydian kingdom a more limited repertoire of Lydian ceramics demonstrably continued in use at Gordion into the Achaemenid Persian period in the late 6th and 5th centuries BCE The material was excavated by Professor Rodney Young's team between 1950 and 1973 and is fully presented here for the first time Ongoing research in the decades following Young's excavations has led to a more refined understanding of Gordion's archaeological contexts and chronology and consequently we are now able to view the Lydian ceramic corpus within a more secure stratigraphic framework than would have been the case if the material had been published shortly after the excavations

## **Styles Of Painting A Comparative Study** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Styles Of Painting A Comparative Study**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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