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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

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   Styles in Painting Paul Zucker,1950   **Styles in Painting** Vsesoiuznaia konferentsiia po biokhimii nervnoi sistemy (2d : 1957 : Kiev),1963   **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

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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 chalearn 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   **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   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 and 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   **Comparative Studies in Republican Latin Imagery** Elaine Fantham,1972-12-15 Of all stylistic devices imagery has the greatest appeal to the imagination but is also the most likely to offend either by staleness or by tasteless excess This volume establishes some of the limitations which govern figurative language in Latin speech and prose by exploring such questions as these From what physical or social contexts is Latin imagery derived To what extent is it influenced by the primacy of Greek as a cultural language and the derivation of the earliest Latin literature from Greek models How are the metaphors expressed in terms of syntax through verb noun adjective or a combination of syntactical forms How are the form and content of imagery related to the literary genre In this study Professor Fantham analyses in detail the conservative imagery of Terence and of Cicero s letters contrasting this naturalistic language with the fantasies of Plautus and the formalization of Cicero s speeches A separate chapter on the de Oratore shows how the thematic and structural use of metaphor and analogy provide balance and continuity giving Latin prose imagery its full role in a mature classical work of art Numerous illustrative passages from Greek New Comedy Terence Plautus and Cicero are reproduced in the text   *Kokka* ,1916   **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 *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

Science John Michels (Journalist),1908 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting **Artistic Style Characteriza** Tieta PUTRI, Automatic style characterization is the process of measuring extracting and analysing different formal elements Brushstroke technique in conjunction with other formal elements such as colour and texture play a vital role in defining an artistic style This thesis explores the stroke based style analysis of the paintings of Vincent van Gogh who is well known for his use of wide and repetitive brushstrokes Novel brushstroke extraction techniques are used to segment and analyse Van Gogh s brushstrokes The extracted features can then be compiled into a feature set which represents the quantified brushstrokes properties and tested using several classification based tests The most contributing factor for detecting visible brushstroke is the brushstroke s texture due to the fact that the texture based segmentation methods give more satisfactory results in extracting visible brushstrokes with their average classification accuracy and F measure being 98 30% and 0 973 respectively Art in Books ,1952 **UKPSC Prelims Exam Paper 1 : General Studies Book 2024 (English Edition) - 10 Mock Tests (1500 Solved Objective Questions) with Free Access To Online Tests** EduGorilla Prep Experts,2024-07-12 Best Selling Book in English Edition for UKPSC Prelims Exam Paper 1 General Studies with objective type questions as per the latest syllabus given by the Uttarakhand Public Service Commission UKPSC Prelims Exam Paper 1

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