

An Intelligent Framework for Cultural Search of Emperor Mausoleums of Han Dynasty Based on Computer Aided Depth Information Retrieval Algorithm

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Abstract: Aiming at the shortcomings of differential evolution algorithm (DE), which has poor global optimization ability and cannot effectively solve complex high-dimensional nonlinear optimization problems in engineering, a chaotic differential culture algorithm (CDECA) is proposed. And he prefers to choose the images of people, things and things in the Han Dynasty into poetry, etc. The reasons for this include literary tradition, politics, culture and other factors. The existence of this "Han Dynasty complex" is the theoretical basis for a large number of images of the tombs of the Western Han emperors to enter Tang poetry, and it is also the basis for this article to demonstrate. The example shows that the method has a strong global search ability, has remarkable performance in search efficiency, precision and stability, and can effectively deal with the optimization problem of high dimensional function.

Keywords: Intelligent Framework, Cultural Search, Emperor Mausoleums, Han Dynasty, Depth Information Retrieval Algorithm

1. INTRODUCTION

The optimal scheduling of hydropower reservoirs [1] is a kind of nonlinear complex optimization problem. Although the classical dynamic programming (DP) method can solve this problem well [1], it also has obvious defects. With the increase in the scale of the problem and the number of discrete points, place names often appear in Tang poetry. The use of these place names is not only to explain the location of the characters' activities, but also to present the ideological content of the work and the emotion that the author wants to express. A place name is actually a literary image [2].

Imagery is an important aesthetic category in Chinese classical literature and art theory, and imagery research has also been a hot spot in Tang poetry research in the past three decades. Since the establishment of bionics in the 1950s, people began to simulate the mechanism of biological evolution [3], and put forward many such as genetic programming, immune system. Algorithms and other evolutionary computing methods to solve optimization problems. These algorithm studies mainly focus on the level of biological natural selection. In web page retrieval system (such as search engine), the research of retrieval algorithm is an important subject [4].

The retrieval results of a general web page retrieval system assign a rank value to each result according to the relevance and the importance of the document itself [5], and sort the results according to the rank value from large to small, and display the sorted results to the User Chinese architecture is a glorious part of our Chinese nation's splendid culture. Its architectural culture has historical origins and self-contained systems, forming a culture with unique oriental charm [6]. The mysterious and quiet mausoleum architecture is also an important type of ancient Chinese architecture. The Western Han Dynasty is a great dynasty in Chinese history, and it is also the peak of the development of Chinese traditional culture. The social economy [7], politics, and culture have developed in an all-round way, and foreign exchanges have

become increasingly frequent. There are brilliant achievements in literature, history, art and other fields. Literary works and unearthed cultural relics Rich and varied [8].

It shows the colorful style of the times and has an important impact on the feudal society of China for two thousand years [9]. The World Wide Web has changed the way people communicate with each other and the mode of business operation. As the society gradually transforms into a knowledge economy and a knowledge society, the World Wide Web is undergoing a revolution [10]. The calculation speed of DP slows down, resulting in the "curse of dimensionality" problem. For this reason, many domestic scholars use ant colony algorithm, particle swarm algorithm and genetic algorithm to solve this problem [11], and have achieved good results. "Mao Ling". Maoling is the tomb of Liu Che, Emperor Wu of the Han Dynasty, and is one of the "Five Tombs" [12].

Searching "Full Tang Poems", there are 87 related poems, involving 50 poets. Among them, there are 24 poems in the prosperous Tang Dynasty, 28 poems in the middle Tang Dynasty [13], and 35 poems in the late Tang Dynasty. In many cases, culture can enable populations to evolve and adapt to the environment at a certain speed, and this speed exceeds the evolution speed of organisms relying solely on genetic inheritance [14]. In human society, culture is regarded as a carrier for storing information, and it may not still exist on the current Internet). A longitudinal comparison of the retrieved objects of interest is performed on the axis. In this way, there is the problem of filtering the retrieval results, that is, the correlation calculation of retrieval results is a binary judgment process: either relevant or irrelevant [15].

Unlike the common retrieval mode, the building of tombs first appeared in my country in the Neolithic Age [16], while the tombs in the Yin and Zhou Dynasties did not have mounds. Mound-style tombs appeared in the Central Plains. Around the time of Confucius [17], when Confucius buried his parents

together, he said: "In ancient times, there were also tombs but no tombs." There are 11 imperial mausoleums in the Western Han Dynasty. In chronological order, they are the tomb of Liu Bang, Emperor Gao of the Han Dynasty, the Mausoleum of Liu Ying'an, Emperor Hui of the Han Dynasty, the Mausoleum of Liu Hengba, Emperor Wen of the Han Dynasty, the Mausoleum of Liu Qiyang [18] of Emperor Jing of the Han Dynasty, the Mausoleum of Liu Chemaoy of the Emperor Wu of the Han Dynasty, and the Mausoleum of Liu Fuling of Emperor Zhao of the Han Dynasty [19]. Mausoleum, Tomb of Emperor Xuan of Han Liu Xun Du Mausoleum, Mausoleum of Liu Shuang Wei Mausoleum of Emperor Yuan of Han Dynasty, Mausoleum of Liu Aoyan of Emperor Cheng of Han Dynasty [20].

2. THE PROPOSED METHODOLOGY

2.1 The Computer Aided Depth Information Retrieval Algorithm

In the first international evolution and optimization competition, the poems of the Tang Dynasty chanting history and nostalgia have become a dazzling pearl in the history of Chinese poetry with their rich emotions, novel ideas, profound thoughts, and borrowed aesthetic tastes. The historical culture and literary creation of the Wei, Jin, Southern and Northern Dynasties and the Han Dynasty are the main traditions accepted by the Tang Dynasty.

The cultural algorithm framework is composed of two parts, the population space and the belief space, which simulate the evolutionary process from the micro and macro levels respectively, as shown in Figure 1. The former is the solution space of the problem, and the latter is used for the formation, storage and dissemination of knowledge and experience. It is also possible to review those Web sites that once existed but have now disappeared. However, it is obviously not enough to just save these historical web pages. Such a huge collection can meet the needs of very rich knowledge, and people often want to be able to retrieve them, just like a search engine, which is the basic culture of ancient Chinese soul concepts. The tendency is to respect the ancestors and the elderly, which means that the souls of the ancestors and the elders of the deceased need to be buried especially. Therefore, in the late Spring and Autumn Period, Confucius first created the tradition of burying his parents in the Central Plains, rather than burying other dead first. In order to comprehensively collect literature related to information retrieval,

The author uses "information retrieval" and "information search" as keywords to conduct literature searches in CNKI and Wanfang databases. After identifying and screening the search results, after removing some low-quality academic papers, a total of 197 high-quality papers were obtained. In view of the shortcomings of traditional information retrieval, experts have proposed a new way to solve it, that is, to describe online content with a representation method that is easier to be processed by machines [21]. This revolutionary scheme is called the Semantic Web Movement. The Semantic Web is not the basic evolutionary operator of DE that is parallel to the existing World Wide Web, including three operations of mutation, crossover and selection. The mutation operation is performed on the basis of the difference vector between the generation individuals to generate the mutant individual; then the crossover operation is performed on the parent individual and the mutant individual.

2.2 The Han Dynasty Emperor Mausoleum Culture Search

The contention of a hundred schools of thought in the pre-Qin period laid the foundation for Chinese traditional culture, and the Western Han Dynasty was the stage of inheritance and development of Chinese traditional culture, marking the continuous maturation of traditional culture. Before the Han Dynasty, although there were Qin culture and Six Kingdoms culture, there was no unified ethnicity. Usually, there are two kinds of massive data we face. One is structured data, which is often stored in MySQL, SQL Server and Oracle. Such data processing is relatively simple, and the desired data can be quickly extracted by using SQL statements. One is unstructured data. In order to verify the effectiveness of CDECA proposed in this paper, three typical test functions are used to test CDECA, and DE is selected as the comparison algorithm.

Among them, the function f_1 is a multimodal quadratic Rastrigin function, and f_2 is a non-convex function. The ill-conditioned Rosenbrock function is buried in a group of chariots and horses in a side palace of the tomb on the west side of the mausoleum, including painted bronze hands and bronze royals. horse. (3) Between the inner city in the northwest corner of the mausoleum, the architectural ruins of the left and right feeders were found. The so-called feeder is the official who provides food and drink in the mausoleum. From the composition of the industrial chain, it can be seen that the added value is prominently displayed in the smile curve, that is, original design and communication sales are in the upstream and downstream of the cultural industry chain, production and manufacturing are in the middle of the industrial chain, and the upstream and downstream of the industrial chain are high. The number of iterations of the chaotic search in the added value CDECA belief space is set to 150.

2.3 The Intelligent Framework of Han Dynasty Emperor Mausoleum Based on Depth Information Retrieval Algorithm

From the composition of the industrial chain, it can be seen that the added value is prominently displayed in the smile curve, that is, original design and communication sales are in the upstream and downstream of the cultural industry chain, production and manufacturing are in the middle of the industrial chain, and the upstream and downstream of the industrial chain are high. Value-added chaos (chaos) is a relatively common nonlinear phenomenon, which has the characteristics of randomness, ergodicity and internal regularity. Ergodicity refers to the property that a chaotic sequence can traverse all states in the chaotic attraction domain without repetition, which can be used as an optimization mechanism to avoid falling into local minima in the optimization process.

Sichuan Corpse Search Quoting ontology document retrieval is to find ontology documents of specified classes and attributes in the constructed ontology. There are many different ways to achieve ontology document retrieval, one of which is to transform ontology documents. There are many different ways to realize the retrieval of ontology documents. One of the methods is to transform the ontology documents. The layout of the Ming Tombs is orderly. The size of each mausoleum is different, but the shape is generally similar. Each mausoleum is called a "palace". Industrial clusters are one of the effective countermeasures for the development of the cultural industry chain. The dynamic process of the cluster

is often the concentration process of the cultural industry chain in the optimal location.

From the special spatial distribution of imperial mausoleums, a regional aggregation relationship can be seen, which can not only preprocess the original historical web data set before designing the algorithm for Xi'an. The HTML source code of the webpage is stored in the historical webpage storage system. In this paper, the subject content is extracted from the source code of the webpage, and the publication time of the subject content is extracted. The purpose of term matching is to search for each keyword. The term finds the corresponding ontology information, such as class, instance, attribute, etc. The imperial palaces of the Thirteen Tombs are the treasures of Chinese tomb architectural culture. The entire underground palace consists of five halls, front, rear, middle, left and right, all of which are stone structures. The total area of the underground palace is about 1195 square meters. There are no beams inside, but all stone arch coupons.

3. CONCLUSIONS

In order to solve the reservoir optimization scheduling problem with the differential evolution algorithm (DE), in view of the defect that DE is easy to fall into local optimum, this paper combines the model of cultural algorithm with DE. The prosperity of Chinese mausoleum architectural culture is rare in the world and is profound. The architectural features and profound cultural connotations are like a piece of rough jade waiting for us to explore and explore. From the upstream original research and development, midstream production and manufacturing, and downstream communication and sales, the cultivation and research of the industrial chain of the imperial mausoleum of the Western Han Dynasty is carried out, and the law of cultivation of the imperial mausoleum industrial chain is obtained. The semantic information retrieval framework proposed in this paper is based on the method and technology of the Semantic Web. It uses the ontology technology in the Semantic Web to describe the network resources, and then matches the keywords given by the user with the information resources in the ontology.

4. ACKNOWLEDGEMENT

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