Retraction

Retraction: The Influence of the Theory of Subject Description on American Modern Literature Based on Big Data Analysis (J. Phys.: Conf. Ser. 1744 032194)

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The authors of the article have been given opportunity to present evidence that they were the original and genuine creators of the work, however at the time of publication of this notice, IOP Publishing has not received any response. IOP Publishing has analysed the article and agrees there are enough indicators to cause serious doubts over the legitimacy of the work and agree this article should be retracted. The authors are encouraged to contact IOP Publishing Limited if they have any comments on this retraction.

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The Influence of the Theory of Subject Description on American Modern Literature Based on Big Data Analysis

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Abstract. With the continuous improvement and maturity of big data analysis technology, its application in the analysis of literary works has been strengthened. As a theory that reflects the theme and rheme of sentences in modern American literature and analyzes the relationship, reference and transition rules between theme and rheme in coherent discourse, the study of theme rheme theory helps to understand the writing features of modern American literature from a deeper perspective, such as the writing structure and cohesive means. Based on this, this paper first studies the theme rheme theory and then analyzes the specific role and influence of the theme rheme theory based on big data analysis on American modern literature.

Keywords: Theory of Subject Description, American Modern Literature, Big Data

1. Introduction
With the iterative development of information technology, the integration of modern literature and foreign literature is becoming more and more intense, especially influenced by European and American literature. American modern literature is the comprehensive reflection of several aspects as shown in Figure 1 below, and the European and American literary circles occupy an important position[1-3]. As a theory that reflects the theme and rheme of sentences in modern American literature and analyzes the relationship, reference and transition rules between theme and rheme in coherent discourse, the study of theme rheme theory helps to understand the writing features of modern American literature from a deeper perspective, such as the writing structure and cohesive means[1]. In addition, the study of it is helpful to understand the overall structure and cohesion of modern American literature[4-6].
The theory of thematic position influences all fields of modern culture, especially the contemporary American literature. However, the research on the influence of this theory on American modern literature is still scarce, which is embodied in paying attention to its influence on vocabulary, phrase and grammar knowledge, while ignoring its research on the structure and cohesion of modern American literature articles. This leads to the difficulty of the in-depth analysis of the thinking, structure and cohesion of American modern literature based on the theory of subject.

Theme and rheme system is a segmentation method based on the functional syntax of European and American sentences. It is used to describe the information or information arrangement given by modern American writers in sentences and paragraphs. Among them, the former belongs to a kind of formal category, which is also the prominent element of modern American literary writers. Modern American literature is influenced by theme rheme theory. Although there may be two indistinguishable sentences in its articles, the information conveyed by the sentences is different, that is, the focus of the author's concern and the starting point of the sentence are different, as shown in Table 1 below.

| Sentence pattern          | Nomnative case               |
|---------------------------|------------------------------|
| Declarative sentences     | Noun                         |
| Interrogative sentence    | Interrogative words          |
| Imperative sentence       | Imperative forms of verbs    |

Theme is the known information and the starting point of information, while rheme is the development of information. The study of the known information in modern American literature is mainly based on the information that has been introduced into the text or assumed to be known by the receiver of the text, while the unknown information or new information is based on the information assumed to be unknown to the text recipient. Under the influence of the main narrative theory, the internal logical connections in modern American literary articles constantly adjust the discourse background, expand and advance the new information, promote and expand the discourse, and realize the cohesion and coherence of the text. Therefore, it is of great practical value to study the influence of the main narrative theory based on big data analysis on modern American literature.

2. Application and research of theme rheme theory

2.1. The concept of theme rheme theory
Theme is the starting point of discourse in modern American literature, and rheme is the actual content gradually unfolding around theme. In modern American literature, theme appears at the beginning of a sentence. In declarative sentences without a marked theme, the theme often overlaps with the subject. The function of theme and subject in the sentence is different, and the marked theme overlaps with other elements\(^2\). As we know, in the process of text production, the producers can only choose one single lexical item to put it into the sentence and then organize these respective sentences into a text. Actually, what the theory of theme and rheme describes is just a speaker or writer choice made independently of the propositional content of the message. In other words, we can say it is a decision...
made by speaker or writer on how to organize the information, where to start, so to speak, in presenting the message.

2.2. Different types of themes
Based on the degree of the complexity of the theme itself, themes could be divided into five categories, say, simple theme, clause theme, unmarked theme, marked theme and multiple theme, as shown in figure 2 below. Among them, simple theme refers to the theme of a clause consisting of just one structural element, which can be represented by nominal group, adverbial group or prepositional group, whose number may be only one or more than one.

![Types of Themes](image)

**Figure 2.** The different categories of themes.

A clause as the theme refers to using the main clause or subordinate clause to serve as theme. A multiple theme: refers to the theme consisting of not only structural element, but also textual element or interpersonal element[^3]. If all these three elements turn up in the same theme, the sequence of the theme is textual element—interpersonal element—structural element, as shown in table 2 below. Unmarked theme is a theme which is the subject of the sentence, and marked theme is a theme which is something other than the subject.

Theme is important because it is what the clause is about. On the one hand, it acts as the point of orientation by connecting back to previous stretches of text and hence maintaining a coherent point of view. On the other hand, it acts as the point of departure by connecting forward and thus contributing to the development of the latter stretches.

![Table 2](image)

**Table 2.** The internal structure of multiple theme.

| Internal structure     | Elements          | Examples                        |
|------------------------|-------------------|---------------------------------|
| Textual theme          | Continuative elements | Yes, no, well                   |
|                        | Structural elements | So, even if, however             |
|                        | Conjunctive elements | Therefore, in other words       |
| Interpersonal theme    | Modal elements     | Certainly, to be frank          |
|                        | Finite elements    | Does, do                        |
|                        | Vocative element   | Mrs Jones, ladies and gentlemen |
| Structural theme       | Topical theme      | Ann, but, then                  |

2.3. Thematic progression and patterns of thematic progression
Every isolated clause will have its own thematic structure and when a certain clause exists exclusively, its theme and rheme will be definite and unchangeable. However, once entering the level of the text, it will find that in the process of the information progression of the whole text, theme and rheme, theme and rheme, and even theme and rheme between respective clauses tend to have a continuous connection and variation according to some regular pattern[^4]. Because most of the texts are made up of no less than one single clause, only through the continuous link and change among theme and rheme, can the process of the information flow of the whole text be progressed.

When constructing a certain text, the writers of modern American literature arrange theme and rheme always follow some patterns. And this pattern is called patterns of thematic progression. The commonest patterns of patterns of thematic progression are contained by constant theme pattern,
constant rheme pattern, linear theme pattern, cross theme pattern, split rheme pattern, and derived theme pattern, as shown in figure 3 below.

![Figure 3](image)

**Figure 3.** The commonest patterns of patterns of thematic progression.

Patterns of sequencing of theme and rheme are only tendencies rather than absolutes. In English, very few texts repeat the same thematising patterns endlessly. By contrast, the mixture of various patterns, through which the writer could avoid the monotony as well as arrange the information reasonably.

2.4. The relationship between thematic structure and information distribution in modern American literature

In modern American literature, thematic structure is closely related to information distribution. In general, the information contained in theme is known information, while that in rheme is new information. Both sides of the communication already know the object of the sentence, which leads to the problem of how to arrange the sequence of the parts of the sentence. When choosing theme in new sentences in modern American literary works, the author usually considers which part of what he is going to say is more naturally connected with what has been said, and then try to make this part the theme of the new sentence.

In addition, the thematic structure and information structure in modern American literature are different from each other. Both belong to the category of language function and are closely related to information transmission[6]. The analysis of thematic structure can help us better understand the discourse pattern and organization pattern in modern American literature. The difference between them is that theme represents known information, rheme represents unknown information, which is the most common corresponding relationship between theme and rheme. However, in the case of theme marking, theme conveys new information instead of known information, such as inversion, split sentence, etc.

As a new information structure, every information structure in American literature has a certain function. The generation of textual meaning is the result of the interaction between the old and the new information. Thematic structure and information structure serve the text together to convey information and express complete semantics. Thematic structure is a formal and functional category. Among them, the former is the theme and rheme of a sentence, which can be determined by position, while the latter function is that the theme is the starting point of the information expressed in the sentence.

3. The influence of the main narrative theory based on big data analysis on modern American literature

3.1. The function of the main narrative theory on modern American literature
First of all, the use of big data technology on the role of the main narrative theory of modern American literature statistics and analysis, we can find the writing ideas of modern American literature writers. Secondly, the results of big data analysis show that modern American literature writers directly enter the theme by using theme. In addition, through the discussion, description and explanation of rheme, the full text is completed in one breath, with clear structure and smooth connection. Moreover, under the action of thematic progression mode, such as the application of parallel thematic progression mode, it helps to make the full discussion and rigorous structure. From the perspective of theme rheme cohesive devices, the use of relevant expressions makes the whole discourse in modern American literature from the whole to the local structure rigorous and logical relationship clear.

3.2. Management application of server virtualization computer laboratory platform

Through the use of big data technology to analyze the influence of theme theory on modern American literature, it is found that its specific impact is mainly reflected in the structural framework and stylistic features of the text. First of all, at the level of discourse structure, based on the different forms of the text, the theme can be made up of place adverbials, and time, place and manner adverbials often appear at the beginning of the sentence to act as the theme, thus creating the suspense of the article. Secondly, the first mock exam of the modern American literature often shows the recent events that are happening and happening in the article. In addition, by using a large number of continuous patterns, the topic content is expanded layer by layer according to a certain thematic progression mode, which reflects a complete cognitive process, so that every sentence in the article should keep in touch with the above logically and be used to express the central idea and stylistic features of the article.

4. Conclusion

In summary, on account of big data analysis, the known information in modern American literature is mainly through the information that has been introduced into the article or assumed to be known by the receiver of the text, while the unknown information or new information is based on the information that the recipient of the text is supposed to know. Under the influence of the main narrative theory, the internal logical connections in modern American literary articles constantly adjust the discourse background, expand and advance the new information, promote and expand the discourse, and realize the cohesion and coherence of the text. Based on the study of theme rheme theory, this paper analyzes the relationship between theme structure and information distribution in modern American literature, as well as the concept of theme rheme theory. Through the analysis of the influence of the main narrative theory on modern American literature, this paper studies the specific influence and function of the main narrative theory on modern American literature.

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