Classification and Categorization: Linguistic and Cultural Conceptualization of Time in the YiJing

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Received: October 11, 2019 Accepted: November 19, 2019 Online Published: December 15, 2019
doi:10.5539/ijel.v10n1p166 URL: https://doi.org/10.5539/ijel.v10n1p166

Abstract

This paper investigates how concepts of time in the YiJing (here YiJing refers to the Jing text in the ancient Chinese work The Book of Changes) are organized and expressed in terms of language structure and cultural practice, especially with regard to the lexicalization of time intervals and temporal landmarks. The way in which time is conceptualized in the YiJing is very special. The purpose of this study is to explore the cognitive and cultural construals of time with the language of real-world experience. With reference to the Cognition-Culture interface, the YiJing text has been used as a corpus to investigate the encoding of time, and the following categories of temporal conceptualization are found according to the different kinds of usages: 1. Metaphoric temporal usage, which is a metaphoric expression of time, such as “a long time” or “quasi-calendar time”; 2. Concepts of time, involving quantification of time: for example, the processes of waxing, waning, declining and growing of the moon that illustrate the quality of alteration associated with time; 3. Event-based intervals, such as “巳日 Siri Day Si” “先甲三日 three days before Day Jia and 后甲三日 three days after Day Jia”; 4. The propitious or opportune time, which is the notion of time as the right time to do something, or the right time which gives a chance to engage in the activity at the right time once it brings good luck. What is more interesting is that from all of these examples in the YiJing, the concepts of time are directly or indirectly linked with either metaphor or the event-based time concept, such as celestial bodies (the sun, moon and stars) or the ritual system, which is specific to a particular culture of the YiJing in ancient China.

Keywords: conceptualization of time, linguistic and cultural, the YiJing, event-based time concept, metaphor, classification and categorization

1. Introduction

In different languages and cultures, the ways of encoding and thinking about time can differ. For instance, Chinese President Xi’s New Year message on December 31, 2018 in example (1) shows the conceptualization of time in China.

(1) 岁月不居，时节如流。(孔融《论盛孝章书》)
Suìyuè bù jū, shíjié rú liú.

Year month NEG stay, time season like flowing.

Time will never keep still, and the seasons always change as the river flows.

It is worth pointing out that this is a classical sentence quoted from Kong Rong’s letter in the Han dynasty. The whole sentence is given in example (2).

(2) 岁月不居，时节如流，五十之年，忽焉已至。(孔融《论盛孝章书》)
Suìyuè bù jū, shíjié rú liú, wǔshí zhī nián, hū yān yǐ zhì.

Year month NEG stay, time season like flowing, fifty of years, suddenly how already arrive.

Time will never keep still, and the seasons always change as the river flows. Suddenly you are 50 years old, but I am two years older.
Thus, it seems that people from different eras may have a similar conceptualization of time, but in fact the conceptualization of time is a very complex issue that is addressed in many fields and disciplines. There have been numerous previous studies on the conceptualization or representation of time in the domains of philosophy (e.g., Minkowski, 1964; Silva Sinha et al., 2012), anthropology (e.g., Schieffelin, 2002; Postill, 2002; Abu-Shams & González-Vázquez, 2014), physics (e.g., Birth, 2012; Wei & Wang, 2014), cosmolgy (e.g., Hubert, 1999), biology and neuroscience (e.g., Levine, 1998; Núñez & Cooperrider, 2013; Núñez et al., 2012), cognitive science (e.g., Levinson, 2003; Núñez & Cornejo, 2012; Majid, et al., 2013; Majid, et al., 2013), culture and linguistics (e.g., Moore, 2006, 2014; Núñez & Sweetser, 2006; Sinha et al., 2011), and other fields (e.g., Tenbrink, 2011). The past research mainly indicates that the nature of time has been an on-going puzzle for all of philosophy and science, including language and cognition. However, few studies have explored the conceptualization of time with reference to ancient Chinese, let alone by referring to the YiJing text in which the original time concepts of ancient China can be clearly seen.

As is well known, YiJing is the first of the Five Confucian Classics in China and can be seen as the wellspring of both Confucianism and Taoism. To some extent, YiJing can represent the main ancient Chinese traditional culture. YiJing is written with examples from the daily life in the ancient period; not only ordinary events happening every day, but also special events like rituals, war, various celestial movements and natural phenomenon like solar eclipse, which are closely related to the original conceptualization of time in ancient China.

Wang et al. (2014) held that there is a mathematical-astronomical concept of time in the YiJing which is the basis of a highly developed calendar. There is also a record of the space-time model, in which time is considered to be one of the extended coordinates. Tan (2014) proposed that time and space are one unity, and that the essence of space is also closely related with time. The temporal concept in the YiJing is a kind of related, systematic time concept. Yang et al. (2007) proposed that the YiJing is not only an achievement of the wisdom of the ancient Chinese nation, but also established the humanistic time conception (i.e., time related with human activity or life events, rather than physical, psychological time). The humanistic time conception of the YiJing has had an important influence on Chinese culture and even on other cultures around the world.

Huang and Zurcher’s (1995) argue that time and space are “transcendental”; that is, they are “a-historical, a-cultural and indifferentely shared by all human beings as long as they are rationally human” (pp. 3–10). A number of Taiwanese scholars who contributed to Huang and Zurcher’s book have examined “Time and Space in Chinese Culture,” but so far, few Chinese scholars have focused on time and space study from the perspective of cognitive cultural linguistics. One example is Lin (1995), whose study is closely related to the conceptualization of time. Lin showed us that “position (wei) and time (shi) are closely related or connected in the YiJing. The meaning of a time is a function of position, the significance of a position also depends on time. That is to say, a certain position will be a place at a certain time. These are the formative principles of position, conceived as a function of time. The sequence of lines from the first, second, third, fourth, fifth, up to the sixth depicts the dynamic stages of a temporal condition” (Lin, 1995, pp. 89–113). By considering the complete situation depicted in the six-line positions, one can discern a hexagram’s “hexagram time.” Moreover, it will present the horizontal dimension of a certain temporal process. The relationship between “time and position” is always presented in the context of a particular situation. Also, Li (1995) examined the culture of China from the vertical perspective, viewing it as consisting of an upper-level elite culture and a lower-level popular culture. That is to say, the cultural time and space and their concretizations are all embodied and lived among by Taiwanese folks.

Time in ancient China was mainly registered in terms of one’s observation of nature, as direct evidence of one’s abstract thinking is rooted in direct observation of concrete objects and events (Su, 2016). The signficance of the YiJing is assumed as it is representative of time conceptualization in Chinese. Event-based time is defined by the events from which their names usually derive, while event-based time intervals may be based upon natural cycles, such as the diurnal and seasonal cycles, or they may be based on social norms and conventions (Silva Sinha et al., 2012; Sinha & Gärdenfors, 2015). The YiJing text is made up of different events where every 是 one event, and every yao is a different period of that event, so we can closely connect the time concept in the YiJing with event-based time, especially with metaphorical event, which is also our hypothesis.

We believe that the usage of the temporal concept is to show the continuity and sequence of the process of motion. Human beings first recognized this characteristic of time by directly reflecting the periodic process of the medium, that is, some periodic changes in the natural world such as the sun rising and setting, alternating day and night, the waxing and waning of the moon, winter going and spring coming, thus making a standard for measuring the length of time and determining the time sequence. We can therefore intuitively observe time and grasp the concept of time. In short, judging from the available data, we explore the classification and
categorization of different concepts of time, and different linguistic conceptualizations of time in the YiJing, especially the time interval system used in ancient China. One question still remains unanswered here: How does the written text in the YiJing convey the concepts of time? This is also our main research question.

2. The Temporal Concept and Linguistic Representation in the YiJing

The point I shall discuss first is “What is a temporal word?” The Modern Chinese Dictionary (2016) defines a temporal word as a noun that expresses time, such as past, present, future, morning, etc. According to Zhang (1953), temporal words are regarded as one of the noun categories, which are further divided into four sub-categories: a certain time; not referring to a certain time; a certain interval or period of time; the “front and back” order of a certain thing, but not a certain date or point in time (Zhang, 1953, pp. 141–142). The concepts of past, present and future were mainly derived from concrete locative senses such as up and down, left and right, or east and west.

Zhu (2003) pointed out that the temporal word is an object that can be used after “在zai in,” “到dao to,” “等到dengdao wait for” and “体词 tici tense word” that can use “this time” and “that time” to refer to, for example, 宋朝 Songchao Song Dynasty, 1930, 立春 Lichun beginning of spring, 从前 congqian once, and 以前 yiqian before. All temporal words can represent time, but words that represent time are not necessarily temporal words (Zhu, 2003, p. 43). For example, “half day, two years” is a quantitative word, and “时间 shijian time、时候 shihou occasion、功夫 gongfu moment” is a general noun, not a temporal word. Zhao (1979) presented the same idea as Zhu, and also pointed out that in points of semantics, temporal words refer to somewhere in the flow of time from ancient times to the present, such as “周朝 Zhouchao Zhou Dynasty,” or relative to the speech time, such as “ancient time.” A cross-cultural study of the metaphorical representation of time was carried out by Zhou (2000). He used two main ways to study metaphorical sentences of time in both Chinese and English cultures. They are the “What is time?” questionnaire and sentences of time metaphor through literary works, quotation books, etc. in both languages. He found the same structural dimensions of time in the two cultures. In this paper, we define temporal words as the expressions or indexicalization that can represent the process of the conceptualization of time, both linguistically and culturally.

The YiJing is one of the most important masterpieces in ancient Chinese. Using the related material in the unearthed literature, we can find the appearance of time concepts in the YiJing, which will be helpful for further study (Li, 2005). Some words in the Shanghai Museum version of the YiJing (Pu, 2014) represent the outstanding characteristics of the early ancient Chinese language. In this paper, the YiJing text I mainly use is the Shanghai Museum Manuscript (the earliest manuscript, dating from about the Late Warring States Era), while some missing parts are taken from the Wangjiatai Bamboo-Strip Manuscripts and the Fuyang Manuscript for reference.

According to Shaughnessy’s (2014) introduction, we know that the core of the YiJing text is the 64 graphs or “pictures” (called gua hua 卦画 in Chinese); there are six lines in each guahua, either whole (⚊) or broken (⚋). In the West these have come to be known as hexagrams (gua 卦). Each of these 64 hexagrams is supplied with a name and seven brief texts including one guaci and six yaoci: a “hexagram statement” (guaci 卦辞) is understood to represent the entire hexagram, and “line statements” (yaoci 爻辞) for each of the six lines. Little more than the hexagram name and one or more injunctions for (or against) certain actions are often included in the hexagram statement, which is usually quite formulaic. From the bottom of the hexagram to its top, we can count all the line statements, “each one introduced by a sort of tag identifying its place within the hexagram and the nature of the line (whether whole or broken) to which it is attached” (Shaughnessy, 2014, p. 23). The bottom line is called “First” (chu 初), the top line “Top” (shang 上), and the intervening lines are simply numbered “Second” (er 二), “Third” (san 三), “Fourth” (si 四), and “Fifth” (wu 五). All of the lines together are referred to as “nine” (jiu 九), which is understood to be yang (i.e., “sunny,” understood in the traditional Chinese worldview to be one of the two basic attributes of all things), and the broken lines are referred to as “Six” (liu 六), which is understood to be yin (i.e., “shady,” the second basic attribute). Such tags as “First Six” (chu liu 初六), “nine in the Third” (jiu san 九三), and “Topmost Six” (shang liu 上六) are usually given by the combination of these two features. Basically, each hexagram includes six lines, where each line is called a yao. From the bottom to the top, there are six yas and they have special names in the YiJing. Two parts are mainly contained in the YiJing text; in general, one is called guaci, and the other is called yaoci.

The YiJing has 64 hexagrams, where each hexagram symbolizes the law of development, and the change of one thing or one phenomenon has a certain background. This certain background which supplies an explanation for the meaning of this hexagram is called time (Huang & Zhang, 2007). Wilhelm (1950) mentioned Time in the appendix of his translation. His definition is similar to that of Huang and Zhang’s, and is as follows, “The
situation represented by the hexagram as a whole is called the time” (Huang & Zhang, 2007, p. 463). He also believed that the time of a hexagram is determinative of the meaning of the situation as a whole, on the basis of which the individual lines receive their meaning. A given line can be favorable or unfavorable now, according to the time determinant.

The time in the YiJing is one kind of certain cultural construction based on an event (the existence of a cultural dimension or cultural specific). Time conceptualization in the YiJing is original, and includes natural time and “life” time (a situation, fate fortune, social position, weal and woe, etc.) The temporal concept in the YiJing can also reflect people’s life in the Yin Zhou dynasty. The term “时 shì time” in the YiJing only appears once: that is the line comment on the fourth line of the Kuei Mei 归妹 Hexagram.

(3) 归妹卦：九四，归妹愆期，迟归有时。

Guī mèi guà: Jiǔsì, guī mèi qiānqī, chí guī yǒushí.

Nine four, marrying sister delay time, late marriage have time.

The marrying maiden draws out the allotted time. A late marriage comes in due course.

Here “时 shì time” in example (3) is not about the real time concept, but means waiting for a good chance (待时 daishi).

In this paper I will take the Hexagram Judgments (卦辞 guaci) and the Linear Judgments (爻辞 yaoci) as examples to perform the corpus analysis. I chose 34 Hexagram Judgments (gua) and Linear Judgments (yao) randomly as my first priming corpus samples to perform the concordance and collocation analysis. A mixed methodology combining qualitative (interpretation) with quantitative (concordance and collocation) analysis was adopted in this study.

3. Classification and Categorization of the Conceptualization of Time in the YiJing

The concept of time has always existed with two kinds of prototypical views of time, namely the measurement of time and the flowing time (the “flow” or passage of the “River of Time”). There is ample evidence that in the YiJing text the way of describing time, or the temporal expression, is very different in terms of different classification standards. For the analysis, the criteria of classification used are mixed semantic classification (as in section 3.1), syntactic classification (as in section 3.2), and calendrical terms (as in section 3.3). Ad hoc terms and definitions are used, but they do not contribute greatly to the understanding of the time concept. According to the objects or carriers they are used for, the temporal concept can be divided into five categories, which are the time concept according to the law of operation, position and deformation of the celestial body; the time concept using the “Cardinal number + temporal unit word” construction; expressing the time concept with the branches and the stems; describing the time concept with the activities of the crowd or certain groups and certain social customs; and directly describing the time concept in terms of temporal words such as year, month and day. The fifth category can also be divided into several categories according to the length of time indicated; that is, it relates to the concept of the measurement of time. From the perspective of flowing time, there are categories that represent the past, present, and future, which are closely related to deictic time.

3.1 Describing the Time Concept According to the Law of Operation, Position and Deformation of the Celestial Bodies

The token and frequency of the first category is 11/37, 37 examples from (4) to (40) are included in the priming corpus analysis. It is called the quantification of time, and is mainly about the processes of waxing, waning, declining and growing that illustrate the quality of alteration associated with time. Examples (4) and (5) show “Quantification of time” by the expression of “月几望 yuejiwang moon almost full.”

(4) 《小畜·上九》：“既雨既处，尚德载，妇贞，厉。月几望，君子征凶。”

《小畜·上九》: “jì yǔ jì chǔ, shàng dé zài, fù zhēn, lì。yuè jǐ wàng, jun zǐ zhēng xiōng.”

Already rain already stays here, good moral carry, woman persists, harmful. Moon almost full, gentleman go on, inauspicious.

Top 9: Now it has started raining and you have reached a place [to rest], [you should stay here], value your good deeds. To carry the woman on [through this weather] may seem correct but will be harmful. Furthermore, the moon has just come out; it will be bad for the wise person to go on [at such a late hour].

(Baynes & Wilhelm, 1997; the following examples’ translations are taken from the same sources, omitting quotations. The I Ching, or Book of Changes – Yi Jing I. 09.)

(5) 《中孚·六四》：“月几望，马匹亡，无咎。”

《中孚·六四》: “yuè jǐ wàng, mǎ pǐ wáng, wú jiù.”
Moon almost full, horse equipment lost, no blame.

Fourth 6: A group of horses run away when it is nearly full moon, and who can blame them?

(The I Ching, or Book of Changes – Yi Jing I. 61.)

Here “月几望 yuejiwang moon almost full” in these two examples means the full moon or the moon waxing to the full. The other similar example in the YiJing text which uses “月几望” is example (6):

(6) 《归妹 · 六五》: “帝乙归妹，其君之袂，不如其娣之袂良；月几望，吉。”

Emperor Yi returns sister, his prince MOD clothes, not as good as his serving maid. Moon almost full; fortune.

I gave his daughter to the sovereign in marriage. The embroidered garments of the princess were not as gorgeous as those of the serving maid. The moon is nearly full; it brings good fortune.

(The I Ching, or Book of Changes – Yi Jing I. 54.)

In this example, “月几望” also indicates that the moon is nearly full. “日昃 ri ze” in Example (7) means sundial, which describes the process of the sun’s movement. The sun’s movement in one day can take different forms, which we can verify in the other examples.

(7) 《离 · 九三》: “日昃之离，不鼓缶而歌，则大耋蹉，凶。”

Sundial MOD leave, NEG beat pots while sing, then old age come sigh, inauspicious.

Third 9: It is bad [if you sit] in the light of the sunset not beating pots while singing, but only lamenting your old age.

(The I Ching, or Book of Changes – Yi Jing I. 30.)

As illustrated in Example (8), “日中 rizhong” means midday or noon. Using the sun’s trajectory can mark the times of day (Boroditsky & Gaby, 2010): both “日昃 ri ze sundia” and “日中 rizhong noon” here can express a point in time or a period of time in terms of the sun’s movement throughout the day.

(8) 《丰》卦辞: “丰，亨，王假之，勿忧，宜日中。”

FENG, go well, King deceives MOD clothes, not as good as his serving maid. Moon almost full, fortune.

There is abundance and things go well, so it is quite appropriate that the king is resting and does not worry, [even] in the middle of the day.

(The I Ching, or Book of Changes – Yi Jing I. 55.)

Here “昼日 zhouri” in Example (9) means daytime. The original temporal concept comes from dividing the day and night. At that time, the ancient people obeyed their original daily routine of working in the daytime and sleeping at night.

(9) 《晋》卦辞: “康侯用锡马蕃庶，昼日三接。”

Kanghou use horses breed a multitude, day and night three times meet.

Progress is similar to when the Marquis Kang used the horses he was bestowed with, to breed a multitude. He mated horses three times a day.

(The I Ching, or Book of Changes – Yi Jing I. 35.)

The natural or agricultural basis of event-based time intervals can also be found in the YiJing text. For example, “旬 xun ten days” in Example (10) can be expressed in the following way.

(10) 《丰·初九》: “遇其配主，虽旬无咎。”

Meet own mate master, although the ten-day period of a month no blames.

Meet own mate master, although the ten-day period of a month no blames.

When you meet with your mate, you will not receive any blame even if you are equals.
As illustrated in example (10), “旬” here means a ten-day period, which is a time interval. In the YiJing text, ancient people could also use “日中 rizhong noontime” + “斗 dou star” to record time intervals, such as in examples (11) and (12).

(11) 《丰·六二》： "丰其蔀, 日中见斗, 往得疑疾, 有孚发若, 吉。"

(12) 《丰·九四》： "丰其蔀, 日中见斗; 遇其夷主, 吉。"

In these two examples, “日中 rizhong noontime” shows the change in position by “using the sun’s trajectory to mark the time” of day (Boroditsky & Gaby, 2010). That is the change of the seasons or the passing of hours at night. There are other similar examples such as (13) and (14) below in the YiJing text.

(13) 《丰》卦辞： "丰, 亨, 王假之, 不忧, 宜日中。"

(14) 《丰·九三》： "丰其沛, 日中见昧, 折其右肱, 无咎。"

Additionally, we made a number of observations based on analysis of the results. It is worth pointing out that the grammatical structure of the above expressions can be classified into the following three kinds: the subject-predicate structure as in “日昃 rì zè, 月几望 yuè jǐ wàng”; the parallel structure such as in “昼日 zhòu rì”; and the modifier-head construction such as “日中 rì zhōng.” In this part, we use the following two ways to show the conceptualization of time in ancient China: Describing the time according to the position of the sun or the shadow of the sun: 日中 rì zhōng, 日昃 rì zè; Describing the time by the law of the moon and the moon and its deformation: 月几望 yuè jǐ wàng, 月盈亏 yuè xíng kuī. We further propose that this classification belongs to “Concepts of time, involving Quantification of time,” for example, the processes of waxing, waning, declining and growing that illustrate the quality of alteration associated with time.

3.2 The Time Concept Using the “Cardinal Number + Temporal Unit Word” Construction

The token and frequency of the second category is 15/37. We can see that the “Cardinal number + temporal unit word” construction often appears in the YiJing. The words that express time in the YiJing are often combined with numerals, and the time concept is clearly conveyed. This expression is the main form of calendar time. The calendar time is a time series in which the positional order of the time is calculated and established according to the customary reference, thereby indicating the year, season, month, date, time record, and the time series. Days, months and years are the prototypical time units. Here are some examples of the use of numeral systems for time reckoning (mostly calendars). In fact, the counting of temporal units involves abstraction of TIME AS OBJECT and does not necessarily dictate a fixed temporal event.
Second 6: [He tries to] build up [her confidence in him] by driving [her] around in a horse carriage. Although he is not a bandit but a suitor, a woman acting correctly will not agree [because of his behavior], but after a long time she will.

(The I Ching, or Book of Changes – Yi Jing I. 03.)

Here “女子贞不字，十年乃字” in example (15) means that the woman did not fall pregnant for a long time, and she did not have children for a long time after marriage. After many years, she finally gave birth to a child. The “十年 shinián decade” here does not really represent the tenth year. It only means a long time to express “不子 buzí no child.”

(16) 《复·上六》: “迷复, 凶。用行师, 终有大败, 以其国君凶, 至于十年不克征。”

Lost return, woe, have disaster Sheng. Use march army, final have great defeat, cause MOD the country’s lord woe, arrive in ten years NEG march and fight.

Top 6: If you return [to the battle ground] with an unfocused [attack], it will go badly. If there is a natural disaster or an eclipse and the army is being sent forth [in spite of this], it will end with a great defeat caused by the country’s lord [who gave the order]. This will be bad; for a very long time you cannot attack.

(The I Ching, or Book of Changes – Yi Jing I. 24.)

In this example (16), the expression means that when losing the right path and returning, there will be danger and disaster. When combatting the enemy, one will eventually be defeated. When governing the country, the monarch is in danger and the national strength cannot be restored for a long time. The so-called “十年不克征 shí nián bú kē zhēng” expresses the harm of the slogan of “迷复 mí fú” and means not being able to fight for many years. “Ten years” here is not the specific usage (not referring specifically to ten years), but just means a long time.

(17) 《颐·六三》: “拂颐, 贞凶, 十年勿用, 无攸利。”

Clear nourishment, suffer woe, ten years not use, no good benefit.

Third 6: Turning away from nourishment, perseverance brings misfortune. Do not act thus for ten years. Nothing serves to further.

(The I Ching, or Book of Changes – Yi Jing I. 27.)

As illustrated in example (17), here it means that there is no need to support the nourishment. If you persist and do not change, there will be sinister dangers, and nothing will happen for many years. There is also no benefit (Liao, 2012, 2015). The “ten years” here also means a long time for “勿用 wùyòng do not use”; it does not just mean ten years. Therefore, the “ten years” in these three examples express the meaning of “many years” or “a long time,” rather than precisely ten years. In comparison in the following examples, there is no essential difference between the meaning of “three years,” “three years old” and “seven days.”

(18) 《同人·九三》: “伏戎于莽, 升其高陵, 三岁不兴。”

Hide army in hill, climb up the high hill, three years of age NEG march.

Third 9: Fellows hide their weapons in the bushes, go up into the high hills [to lay low] and do not rise for a long time.

(The I Ching, or Book of Changes – Yi Jing I. 13.)

In example (18), it means that the soldiers were lurking amongst the grasshoppers, and some people arbitrarily boarded Gaoling, exposing the target, leading to a big defeat, and then did not start another war for many years (Liao, 2012, 2015). The so-called “三岁不兴 sansuì bù xīng” does not mean only three years; in terms of defeat, war cannot last for many years. “三岁 sansuì three years old” in examples (19) and (20) also indicate that there is a long time, but not three years.
(19) 《坎·上六》：“系用徽绳，真于丛棘，三岁不得，凶。”

《系辞下》：“系用徽绳，真于丛棘，三岁不得，凶。”

Tie use cord rope, place among thorny bush, three years of age NEG gain, woe.

Top 6: Tied up with rope and cord and placed among thorny bushes, he achieved nothing for a long time [anything]. This is bad.

(20) 《困·初六》：“臀困于株木，入于幽谷，三岁不觌。”

《系辞下》：“臀困于株木，入于幽谷，三岁不觌。”

Buttocks stock in woods, step into steep valley, three years of age NEG meet.

Beginning 6: Your buttocks are sore from sitting alone for a very long time on a tree stump in a secluded valley.

(21) 《临·九五》：“鸿渐于陵，妇三岁不孕，终莫之胜，吉。”

《系辞下》：“鸿渐于陵，妇三岁不孕，终莫之胜，吉。”

Wild goose gradually towards the hillock, woman three years NEG pregnant, final no one MOD win, weal.

Fifth 9: The wild goose gradually advances towards the hillock. The woman does not fall pregnant for three years, but in the end, nothing can hinder it and all will be well.

(22) 《丰·上六》：“丰其屋，蔀其家，闕其户，阒其无人，三岁不觌，凶。”

《系辞下》：“丰其屋，蔀其家，闕其户，阒其无人，三岁不觌，凶。”

Award his home, open his door, peep his window, hear MOD no one, three years of age NEG see, woe.

Top 6: Abundance to a degree where the [luxury] of your house is screened off from the [outside world]. It is bad if you peer into the house and it is quiet with no people, and there has been no one visiting for a long time.

(23) 《临》卦辞：“元亨，利贞。至于八月有凶。”

《系辞下》：“元亨，利贞。至于八月有凶。”

Very smooth, benefit harmony. Arrive in August have misfortune.

To oversee [things] is a basic requirement of making things go well. It will be beneficial to [ensure that everything] is correct. Otherwise, when the eighth month arrives there will be misfortune [of a bad harvest].

(24) 《复》卦辞：“复，亨，出入无疾，朋来无咎。反复其道，七日来复，利有攸往。”

《系辞下》：“复，亨，出入无疾，朋来无咎。反复其道，七日来复，利有攸往。”

Here, the “八月” of “八月” is an ordinal number, and “August” represents the eighth month. Naturally, it is a specific usage. It is worth pointing out that the meaning of the word “月” has changed from the changing shape of the moon (for instance, “月几望”) to a measurement unit for time (for instance, “八月”).
Fu, smooth, out and in no illness, friends come no disaster. Repeat again this rule, seven days come return, good for have go towards.

Returning [from a journey] that went well, you went out and came back unharmed. When friends have come and all went well, they turn back and return to their own way. Then, after seven days they return again. It is beneficial to have a destination to travel towards.

(The I Ching, or Book of Changes – Yi Jing I. 24.)

Social and cultural factors have an important impact on the formation of time. As illustrated in example (24), “七日来复 qī rì lái fù” means “I will reply in a few days.” It is not the specific seven days usage, but just indicates that time is not long but cyclical. “七日 qī rì seven days” in ancient China was usually connected with a cyclic concept of time.

(25)《震·六二》: “震来厉, 亿丧贝。跻于九陵, 勿逐, 七日得。”

Thunder come strong, billion lose treasure, surpass at Mount Jiuling, NEG go further, seven days gain.

Second 6: Thunder is coming; it can be dangerous [but only one in] a million would strike us. It is just like if you lose some money, then just climb over nine hills not seeking it; after seven days you will get [money again].

(The I Ching, or Book of Changes – Yi Jing I. 51.)

Here example (25) means that “Thunder comes suddenly, there will be danger. It is estimated that you will lose money; climb and look up, do not worry about it, and soon the lost things will return to you.” (Liao, 2012, 2015).

Judging from the calmness of “勿逐 wù zhú” “七日 qī rì seven days” means that the time is not long. It is only a few days, but not necessarily seven days.

(26)《既济·六二》: “妇丧其茀, 勿逐, 七日得。”

Woman lose her ornament, not look for, seven days gain.

Second 6: The woman loses her carriage curtain but she should not look for it, she will get [another] after a few days.

(The I Ching, or Book of Changes – Yi Jing I. 63.)

As illustrated in example (26), it means that the woman lost her jewelry and did not have to pursue it. It will be recovered and gained again in a few days (Liao, 2012, 2015). “Seven days” here cannot be said to be a real number (实数 shishu). It is just referring to seven days as a general period of time, and it could be a few days or many days. Besides these examples, we can find other similar examples in the YiJing text such as the following:

(27)《明夷·初九》: “明夷于飞, 垂其翼; 君子于行, 三日不食。有攸往, 主人有言。”

Ming yi at fly, left down its wing. Gentleman at walk, three days NEG eat. Have go on, master have words to say.

Beginning 9: [While on a campaign] to enlighten barbarians, [although progressing like you were] flying [you should] lower your wings [and come down]. When the wise person is walking for three days he doesn’t eat because he has a set goal. However, his landlady has something to say [about not eating her food].

(The I Ching, or Book of Changes – Yi Jing I. 36.)

Here, “三日不食 sanri bushi Not eating for three days” in Example (27) does not mean that there are only three days of eating nothing, but that there are many days of eating nothing. The “三日 sanri three days” here is not specific usage, but expresses the meaning of many days. There are other examples like this, such as (32) and (33) below.

(28)《既济·九三》: “高宗伐鬼方, 三年克之, 小人勿用。”

GAO ZONG attack devil land, three years win it, small men no use.

King Wu Ding attacked the devil’s land and could do it in three years; [for such a task] less capable men cannot be used.

(The I Ching, or Book of Changes – Yi Jing I. 63.)
Here, there is still a conflicting view about “三年 sannian three years” in Example (28). Wang Bi (226-249) and Kong Yingda (574-648) argue that it really represents three years (specific usage) (Lin, 1999), but there is no convincing evidence for this interpretation. According to the book 今本竹书纪年 Jin Ben Zhu Shu Ji Nian, “武丁三十二年伐鬼方, 次于荆, 三十四年, 王师克鬼方, 氐羌来宾” (The I Ching, or Book of Changes – Yi Jing I. 49.) illustrates in example (29), “三十二年伐鬼方, 次于荆, 三十四年, 王师克鬼方, 氐羌来宾” from “三十二年sanshi er nian thirty two years” to “三十四年 sanshi sinian thirty four years,” we can count that it is just “three years” (Gao, 2007). However, Yao Peizhong (1792-1844) of the Qing Dynasty had already pointed out that the book 今本竹书纪年 Jin Ben Zhu Shu Ji Nian is also based on the ShiJing and the YiJing (Yao, 1995). That is to say, the idea of 今本竹书纪年Jin Ben Zhu Shu Ji Nian cannot be found in the 古本竹书纪年Gu Ben Zhu Shu Ji Nian, which was compiled from the texts of 既济 JIJI in the YiJing and 荡Dang in the ShiJing. Yao’s statement that it is counted from “三十二年 sanshi er nian thirty two years” to “三十四年 sanshi sinian thirty four years” is invalid. Cheng (2011) analyzed and compared various aspects of the system, volume, year, text, academic, quotations, compilations, engravings, and calendar. He held that 今本竹书纪年Jin Ben Zhu Shu Ji Nian is developed from the 古本竹书纪年Gu Ben Zhu Shu Ji Nian (when it is lost, missing some parts), so we cannot judge that “三年” is just from “三十二年 sanshi er nian thirty two years” to “三十四年 sanshi sinian thirty four years.” As illustrated in example (29), “三年” is also not a specific period of time.

(29)《未济·九四》：“贞吉，悔亡。震用伐鬼方，三年有赏于大国。”

(Pèijì · jiǔsì) : “zhēngjí, huì wáng. zhèn yòng fá guǐfāng, sān nián yǒu shǎng yú dà guó.”

Persist weal, regret lose. Use attack devil land, three years have reward by a great country.

Fourth 9: Correct things for the better then regret will vanish. Use great power when attacking the Devil’s land. It may take three years, but then you will have the reward of a greater country.

(The I Ching, or Book of Changes – Yi Jing I. 64.)

In short, one quite striking fact that emerges from the data is that the quantifiers in the YiJing text that express time are definite or certain(specific usage), such as “日 rì day,” “岁 suì “year,” “年 nián year,” “月 yue month.” The cardinality of expressing time is uncertain, and is often not specific, such as “three, seven, ten.” However, when an Ordinal number is used for expressing time, it is for a real specific usage, for example “八月 bayue August.” Therefore, the “三岁 sansui three years old, 三年 sannian three years, 十年 shinian ten years, 三日 sanri three days and 七日 qiri seven days” are not “实数 shishu real numbers,” but are “虚数 xushu approximations or imaginary numbers.” I will talk about the details of this point in another paper. “Three years old, three years and ten years” have the meanings of several years. “Three days and seven days” mean a few days. One quite striking fact that emerges from the data is that this kind of usage in ancient Chinese is metaphoric temporal usage: that is, our understanding of time is essentially metaphorical.

3.3 Expressing the Time Concept with the Branches and the Stems

The token and frequency of the third category is 2/37. It is considered as event-based intervals as in the following examples. The original method of recording time in ancient China was characterized by the fact that time was usually not recorded as numbers, but as events. For the ancient people, time was a combination of events that were occurring or that had occurred.

(30)《革》卦辞：“巳日乃孚。元亨利贞,悔亡。”

(Gé) guà cí : “sì rì n i fú. yuán hēng lì zhēn, huì wáng.”

Si day change. Very smooth, benefit persist. Regret lost.

Change. When the [right] day has arrived there will be confidence in change. [This is the very] foundation of a successful [transition]. It is beneficial to correct things, then regret will go away.

(The I Ching, or Book of Changes – Yi Jing I. 49.)

(31)《革·六二》：“巳日乃革之,征吉,无咎。”

(Gé · liù èr) : “sì rì nàí gé zhī, zhēng jí, wú jiù.”

Si day just transforms, march weal, no fault.

Second 6: When the right day has arrived then change; to attack [at that time] is good and there will be no failure.

(The I Ching, or Book of Changes – Yi Jing I. 49.)

As illustrated in examples (30) and (31), “巳日 sīrì Day Sī” refers to the Shangsi festival on March 3 in China.
The ancient people often use heavenly stems (天干 tiāngàn) and earthly branches (地支 dìzhī) to record the time, including day, year, month and hour. The combination of stems and branches is the result of the yin and yang calendar combination, which was developed relatively well in the Xia, Shang and Zhou Dynasties. The history of numbers and time in ancient China is closely related to stems and branches. To some extent, stems and branches are one kind of natural calendar. Calendars and clocks are cognitive artefacts that play important roles in the concept of time. These artefacts were produced with the intention to measure time in our society in a precise way (weeks, months, years, seconds, minutes, hours and so forth) (Silva Sinha et al., 2017). In addition to recording the year of the dynasty, the stems and branches can also represent the order of the month, the day, and the hour, repeatedly and in a cyclical manner.

3.4 Describing the Time Concept with the Activities of the Crowd or a Certain Group and Certain Social Customs (Event-Based Time)

The token and frequency of the fourth category is 2/37. This is a method of expressing the number of points in time with the activities of the crowd or certain groups and certain social customs. On the surface it is the representation of time, which implies a certain sense of distance according to the event-based context. To some extent, this is one kind of time-space mapping (two directions), for example, reckoning of distance by quantifying the number of days of a journey by horse. Measurement of distance in terms of time reckoning is very common in most languages, including in ancient Chinese. Time is related to the operation of the celestial bodies, such as the sun, the moon and the stars, but it is not only this kind of operation; time should relate to the operation of all objects. The time concept in the YiJing is one kind of reckoning usage of counting event-based time as in the following examples.

(32) 《蛊》卦辞：“蛊, 元亨, 利涉大川。先甲三日, 后甲三日。”

(33) 《巽》卦辞：“震, 壬午, 十二月。先庚三日, 后庚三日。”

Gu, very smooth, benefit from crossing the great river. Before Jia three days, after Jia three days.

Harmful [ways]. What we basically want is for things to go well. It is of benefit to cross the great river. [Prepare] for three days before commencement, and after [settle on the other bank] for three days.

(The I Ching, or Book of Changes – Yi Jing I. 18.)

In this example, “先甲三日 xianjia sanri three days before Day Jia and 后甲三日 houjia sanri three days after Day Jia” is one kind of metaphorical expression of space-time, especially focusing on “xian and hou,” which is also space in terms of time (time-space usage). Here “xian and hou/front and back” means “before and after,” which is the usage of complementary pairs to express the concept of space. They can be used as auxiliary words, which is different from the modern Chinese. The event here is something that happens or takes place, and the main feature for event-based time is the event itself, such as life stages, intervals of the day and night and seasons. The length of the event-based intervals is not only measured numerically, but metaphorically. Of course, understanding time is not limited to motion; time is also understood as space, as money, or as a commodity, among other mappings (Ahrens & Huang, 2002). Passage metaphors may involve explicit use of motion verbs such as “come, go, pass, arrive, and so on”; they may rely instead on the metaphorical interpretation of adverbial phrases such as “the year ahead,” and can be stative and orientational as well as dynamic, sometimes involving fictive motion (Talmy, 1999). Example (33) shows us a case consisting of metaphorical interpretation, and the most important metaphorical source domain is that of space.

(33) 《巽·九五》 ：“震吉, 诲亡, 无不利, 无初有终。先庚三日, 后庚三日, 吉。”

《巽·九五》 ：“zhèn jí, huì wáng, wú bù lì, wú chū yǒu zhōng。xiān gēng sān rì, hòu gēng sān rì, jí。”

Persist weal, regret lose, without NEG benefit, without beginning have end. Before Geng three days, after Geng three days.

Fifth 9: Correct things for the better; then regret disappears and all is beneficial. Not much of a beginning but there will be an end. Allow three days before the seventh day and three days after; this way things will turn out well.

(The I Ching, or Book of Changes – Yi Jing I. 57.)

As shown in (32) and (33), “先 xian” means before, while “后 hou” means after. They are combined with their own objects that represent time, indicating that the action happens before (after) the event or object represented by the preposition object. Both of these examples use the “先 xianhou before and after, 上下 shangxia up and down + number of time slots” construction to show the conceptualization of time in ancient China. In modern Chinese, we still use this kind of construction, for example, fifteen days before and after, five thousand years up
and down. In this type, the “先 before and 后 after + X” construction is used more, while use of “上 up and 下 down + X” construction is very limited. “Before and after” is the synthesis of the position words, which refers to the spatial range of the front and the back in the position sense; correspondingly, the “before and after + X” construction also refers to a time range including before and after X, and thus belongs to the time structure representing the time period in terms of the meaning function. The conceptual metaphor TIME AS SPACE is conceptually well motivated.

What is more interesting is that these two examples obviously lack a predicate structure from the view of sentence structure, only leaving the time phrase adverbials such as “先甲三日, 后甲三日 three days before Day Jia and three days after Day Jia” or “先庚三日, 后庚三日 three days before Day Geng, three days after Day Geng,” which is also one feature of the YiJing syntax structure.

The original method of recording time is characterized by the fact that time is usually not recorded by numbers, but by events. For the ancient people time was a combination of events that were occurring or had occurred. I claim that parts 3.3 and 3.4 mainly belong to the category “Event based intervals,” such as “巳日 siri Day Si,” “先甲三日 xianjia sanri three days before Day Jia and 后甲三日 houjia sanri three days after Day Jia.” Meanwhile the metaphorical expression “xian and hou/front and back” indicates another category “Metaphoric temporal usage,” which is a metaphorical expression of time, such as “a long time” or “quasi-calendar time.”

Ahrens and Huang (2002) also argued and identified that the concept of time passing should be understood as motion.

3.5 Directly Use “Year, Month, Day, etc.” to Record Time

The token and frequency of the fifth category is 7/37. It should be noted that examples (34), (35) and (36) all use “终日 zhongri all day” to record time, as illustrated below:

(34) 《乾·九三》： “君子终日乾乾, 夕惕若, 厉, 无咎。”
    《Qián · jiǔ sān》: “jun zǐ zhōng rì qián qián, xī tì ruò, lì, wú jiù。”

Gentleman all day struggle, evening on guard, harmful, no disaster.

Third 9: The wise person is active all day long, and is even on guard in the evening. It would seem this could be harmful but is [in this case] not a mistake.

(35) 《豫·六二》： “介于石, 不终日, 贞吉。”
    《Yù · liù èr》: “jiè yú shí, bù zhōng rì, zhēn jí。”

Protect behind stone, NEG all day, persist weal.

Second 6: Hide behind rocks, but don’t stay there all day, [go on and] correct things for the better.

(36) 《既济·六四》： “繻有衣枷, 终日戒。”
    《Jì jì · liù sì》: “xū yǒu yī jiā, zhōng rì jiè。”

Wearing clothes worn, all day worry.

Fourth 6: Your fine colored silk cloth has been worn [for so long it is nearly] worn-out. Towards the end of its days you must be careful [not to rip it].

(37) 《晋》卦辞： “晋, 康侯用锡马蕃庶, 终日三接。”
    《jìn》 guà cí: “jìn, kāng hòu yòng xǐ mǎ fān shù, zhōng rì sān jiē。”
Kanghou use horses breed a multitude, day and night three times meet.
The Lord of Kang herewith awards horses in multiples; during the day there were three engagements. (The I Ching, or Book of Changes – Yi Jing I. 35.)

夜 ye:
(38) 《夬·九二》: “惕号，莫 夜 有戎，勿恤。”
   《Guài · jiǔ èr》: “tì hào, mò yè yǒu róng, wù xù。”
Great scream, in evening have army, not worry.
Nine in the Second: An apprehensive scream. In the evening and night there are enemies. Do not worry. (The I Ching, or Book of Changes – Yi Jing I. 43.)

夕 xi:
(39) 《乾·九三》: “君子终日乾乾， 夕 愍若厉，无咎。”
   《Qián · jiǔ sān》: “jūn zǐ zhōng rì qián qián, xī tì ruò lì, wú jiù。”
Gentleman all day struggle, evening fear as if danger, no trouble.
Nine in the Third: All day long the superior man is creatively active. At nightfall his mind is still beset with cares. Danger. No blame. (The I Ching, or Book of Changes – Yi Jing I. 01.)

In oracle bones language, “月 yue moon” and “夕 xì nightfall” have the same shape structure (the shape of the moon like \( \text{ـ} \)), which belonged to the same word, but then differentiated and evolved into the separate words “月 yue” and “夕 xì.” The period of the moon shape’s change is about 30 days: during this change, the ancestors formed the concept of the time when the moon was missing, or when it was full, but still named it after the “月 yue moon.”

朝 zhāo:
(40) 《讼·上九》: “或锡之鞶带，终 朝 三褫之。”
   《Sòng · shàng jiǔ》: “huò xì zhī pán dài, zōng zhāo sān chí zhī。”
Or award him leather belt, final morning three times strip it.
Top nine: Even if by chance a leather belt is bestowed on you, by the end of a morning it will have been snatched away three times. (The I Ching, or Book of Changes – Yi Jing I. 06.)

In contrast, as shown in (40), the case of “朝 zhāo morning” is just the opposite of “夕 xì evening,” which shows that the sun has come out, and the moon has not yet fallen—the early morning scene. Generally speaking, the ancient people differentiated the daytime and evening by the movement of the sun and moon, which is also the original way of conceptualization of time.

In short, judging from the available data, it appears that the conceptualization of time in the YiJing is mainly event-based time, which can be summarized as the following categories: 1. Metaphoric temporal usage, which is a metaphoric expression of time, such as “a long time” or “quasi-calendric time”; 2. Concepts of time, involving Quantification of time, for example, the processes of waxing, waning, declining and growing that illustrate the quality of alteration associated with time; 3. Event based intervals, such as “巳日 sìrì Day Sì” or “先甲三日 xiānjīa sānrǐ three days before Day Jia” and 后甲三日 hòujīa sānrǐ three days after Day Jia”; 4. The propitious or opportune time, which is the notion of time as the right moment to do something, or the right time which gives us a chance to engage in the activity at the right time once it brings good fortune. This category is closely related with “吉 jí weal” and “凶 xiōng woe” in YiJing culture. We will discuss this issue in detail in the future.

4. Discussion
In this part, I will discuss my findings, compare them with the existing literature, and address issues such as its contributions and limitations. I argue that metaphors regarding time could be more motivated. I explore in more depth the motivations or underlying reasons of encoding time in different ways.

4.1 Metaphorical Expression
Days, weeks, months, and years can correspond to periodic recurrences of rites, feasts, and ceremonies in ancient
China (Silva Sinha et al., 2012). Here, both the expression of “先甲三日，后甲三日 xianjia sanri, houjia sanri three days before Day Jia, three days after Day Jia” and “先庚三日，后庚三日 xiangeng sanri, hougeng sanri three days before Day Geng, three days after Day Geng” in the YiJing are the temporal concepts on the surface, but from the event-based context-What we basically want is for things to go well. It is of benefit to cross the great river, keeping the proper distance is crucial. What kind of distance, the distance of three days before and after Jia (the record day method of using stems and branches in ancient China), is the abstract distance indicated in “[Prepare] for three days before commencement, and after [settle on the other bank] for three days.” In this way, we can reckon some distance by quantifying the number of days based on events and activities.

How do we know if it is distance or just waiting for time? Certainly, the use of “xian and hou/front and back” is a metaphorical expression in which space is mapped to time. Sinha and Bernárdez (2015) found time-space mapping in ancient usage, which is the reference to a journey by horse. This means that we do not always metaphorically express time in terms of space; we sometimes express spatial distance metaphorically in terms of time. There is a mapping from time to space. Maybe “three days before or after” is also the representation of the linguistic anchor trajectory in the YiJing that uses complementary pairs. As in other cases, we often come across similar pairs in the YiJing.

4.2 Space-Time Metaphor

We further propose that “往 wang and 来 lai” usages in the YiJing, such as in examples (11), (24), (25) and (27), especially in relation to metaphoric usage, include not only spatial metaphors, but also space-time metaphors. Space and time are linked to each other in human thinking. Just like the above analysis of the related example interpretations of these directional motion verbs in the YiJing, which contain some specific or abstract events, consisting of the motions moving from one location to another, it will cover not only a certain space (like the motion path of 往 wang or 来 lai), but also a certain amount of time (the time it takes to move from one location to another). They can be called space-time metaphors. In other words, we would expect that the transfer from time to space should be as common as the transfer from space to time.

Xu (2016) discussed the vertical time expressions in ancient Chinese, such as “上世 shangshi in previous eras,” “上古 shanggu in ancient times,” “上旬 shangxun the first ten days,” etc., especially as they are used in pre-Qin documents. She held that expressions with spatial meaning often evolve into expressions with temporal meaning in natural languages. The ancient Chinese possessed horizontal time expressions (like “前 qian front” and “后 hou back”), as well as vertical time expressions (like “上 shang up” and “下 xia down”). The language in the YiJing is different. We can also find some horizontal time expressions that use xian and hou, for example, “先甲三日 xianjia sanri three days before Day Jia and 后甲三日 houjia sanri three days after Day Jia.” However, vertical time expressions cannot be found in the YiJing.

From the above randomly selected 37 Hexagram Judgments (gua) and Linear Judgments (yao), we can summarize the time concepts in the YiJing: 日 ri day, 月 yue month, 时 shi the moon waxing to the full, 年 nian year, 旬 xun year, 甲 jia, 乙 yi, 庚 geng, 日中 rizhong midday/noon, 丑 zuohou daytime. We can also classify them into the followings in terms of different standards:

Natural time: 日 ri day, 月 yue month, 年 nian year; Phases of the moon: 时 shi the moon waxing to the full; Period of day: 昼 ri daytime, 日中 shi midday/noon; Conventional time based on event: 先 jia three days before Day Jia/Geng, 后 hou three days after Day Jia/Geng Three days after Day Jia; Life stage (Human): 年 nian year of age; and event based time: 巳 ri zhiDay Si, 目目 sundial(tool) 

Judging from the available data, it appears that the four seasons do not appear in the YiJing text, which is worth pointing out and is something that we will explore in the future. To sum up, this paper helps us understand the way in which concepts of time in the YiJing are organized and expressed in terms of language structure and cultural practice.

5. Conclusion

In this paper, a priming corpus study of the conceptualization of time was conducted based on the Shanghai Museum version of the YiJing text. From the priming corpus analysis, we can easily find five classifications and the related four categories. “Natural time” and “Cardinal number + temporal unit word” were the most common temporal concepts in the YiJing; that is, the so-called natural or agricultural basis of event-based time intervals, which is used for certain historical, cultural and agricultural factors in that period. The time consciousness of the ancestors in the Zhou Dynasty presented a sense of “timely chance,” that is, sometimes suitable or not suitable for doing something, especially in the natural or agricultural world in the Zhou Dynasty. The ancestors of the Zhou Dynasty believed that the so-called timely chance is to do the right thing at the right time, and to avoid
losing the right time or choosing the wrong time. These examples mentioned in this paper demonstrate how the sun, the moon, the stars and natural and social happenings index the event-based time intervals, and how they were used by the ancient people to reckon time.

The present paper evaluates the claim that the original method of recording time is characterized by the fact that most are not recorded by numbers, but by events. For the ancient people, time was a combination of events that were occurring or that had occurred. Time in the YiJing is also a form of material existence. It is a reflection of the continuity and order of the movement of objective things. However, due to the particularity of time itself, it has no intuitive image, and there is no analyzer that specifically perceives time. To directly perceive time, we must always recognize and reflect on it by means of a medium (event-based) or by metaphors that directly reflect the time process, such as the periodicity of nature (the time required for the moon to return to a relative position or to return to the same state), changes (alternating day and night, sun rising and setting, moon waxing and waning) the age; and the number of years.

Acknowledgement

This research was financially supported by The General grant project of Hunan Provincial Social Science Achievements Review Committee in 2019 (Grant Number: XSP19YBZ080)—A Study of Time and Space Language Representation in Ancient China-Taking ShiJing and YiJing as an Example; Humanities and Social Science Fund of Ministry of Education of China in 2017 (Grant Number: 17YJCZH221). The author would like to thank the referees and editors for their valuable comments, and support from CSC in China and CRLAO, Inalco, in France.

There is no conflict of interest to publish this paper in this Journal.

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