Research Article

The Inheritance of Traditional Shuttlecock Sport: A Game Theory-Based Analysis

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Aiming at the problem that the inheritance effect of shuttlecock is not ideal and the inheritance strategy is lack of pertinence, this paper puts forward a decision-making model based on game theory. Firstly, based on the inheritance data of shuttlecock movement, the shuttlecock movement set is established, and the normality, integrity, and standardization of the data set are tested. Then, using weighted theory and game theory, the shuttlecock motion set is divided, and according to the situation of each subset, the game decision-making method is selected. Finally, under the guidance of game decision-making method, the inheritance strategy of shuttlecock is obtained. The results show that the concept of shuttlecock inheritance (OR = 1.232, P < 0.000), public participation (OR = 10.865, P < 0.000), government support (OR = 2.561, P < 0.000), and multilayer inheritance measures (OR = 0.965, P < 0.000) all have an impact on the inheritance of shuttlecock. However, the propaganda is not in place (OR = −5.234, P < 0.000), which inhibits the inheritance of sports shuttlecock. Therefore, sports institutions, relevant departments and colleges, and universities should formulate inheritance strategies and measures that meet the requirements from the above factors.

1. Introduction

With the continuous development of shuttlecock, all departments pay more attention to the inheritance of shuttlecock. However, there are many factors involved in the inheritance of shuttlecock, and a single decision-making method cannot promote the development of inheritance. The key of shuttlecock transmission is to sort out the relationship and find out the main influencing factors [1]. Relationship arrangement can not only analyze the relationship between influencing factors and shuttlecock but also dig out the inheritance degree, which is the main method of shuttlecock inheritance at present. At present, there are many theoretical researches on the inheritance of shuttlecock at home and abroad, but there are few researches on the inheritance methods of shuttlecock movements, methods, concepts, and ways, as well as the action processes such as ball control, kicking and hanging, and the scoring results of shuttlecock. Among them, the essential differences are mainly reflected in related data, data analysis, and simulation. In China, the inheritance of shuttlecock is mainly in the theoretical level, and there are few studies on actual cases. Compared with domestic, foreign studies pay more attention to case analysis, data analysis, and model building, but foreign research results cannot meet the actual needs of China. Foreign scholars focus more on the classification, summary, and simulation of data in the research of traditional sports, such as ice hockey, curling, sledge, and snow sledge. Domestic research focuses on theoretical level, but the data analysis of traditional sports such as shuttlecock is not enough. Theoretical analysis is macroscopic, which cannot guide the corresponding practice concretely. There are significant differences between actual needs and formulated measures. Therefore, the difference between domestic and foreign countries lies in insufficient depth of data analysis and lack of simulation case analysis. At present, the related research of traditional sports inheritance has been carried out in China, such as jumping rubber band, turning rope, and rolling ball, but the related research of shuttlecock is relatively few. Sports such as rubber band jumping are mainly analyzed by means of data statistics,
and different research results are compared. The mechanical analysis of turning rope and rolling ball is mainly carried out by using finite element software. For shuttlecock, theoretical analysis is still adopted, and practical cases are lacking. Therefore, the inheritance of shuttlecock should be changed to methods and models, so as to improve the effect and efficiency of inheritance and promote the better development of traditional sports. Based on the above research, this paper is aimed at the case and model construction of shuttlecock inheritance and makes a practical comparative analysis to promote the good inheritance of shuttlecock.

2. Literature Review

Literature research shows that strengthening the theory can classify the inheritance data of shuttlecock, reduce the amount of data analyzed, and improve the accuracy of analysis results [1]. There are also literature studies showing that regression analysis can analyze the influencing factors of shuttlecock inheritance, find out the main influencing factors, and make better inheritance strategies [2]. However, in the process of classifying influencing factors by big data technology, external uncertain factors will affect the analysis results of sports inheritance and have a negative impact on the final results [3]. Some scholars also put forward ant colony analysis model, which can realize the judgment of sports inheritance degree, but the evaluation index is relatively few [4]. However, in the process of sorting out the influencing factors [5], external uncertain factors will affect the inheritance rate and the final result. Some scholars also put forward a decision-making model, which can effectively analyze the inheritance of shuttlecock movement [6], but the movement process is longer. Under the condition of complex factors and massive information, the comprehensive judgment ability of shuttlecock inheritance decreased significantly [7]. For this reason, some scholars put forward a game decision model and used this model to comprehensively analyze shuttlecock inheritance [8]. The accuracy of the analysis results is significantly better than the traditional statistical methods. Based on this, this paper puts forward a game decision-making model, which is used to analyze the results of shuttlecock movement and compare with the actual development needs of shuttlecock. At present, there are many research literatures on the inheritance of sports shuttlecock in China, but they still cannot meet the actual literature needs. The specific results are shown in Figure 1.

It can be seen from Figure 1 that sports shuttlecock, shuttlecock content, shuttlecock development, government support, and other contents are the main methods of sports shuttlecock development, which also shows that sports shuttlecock inheritance is the hot spot of traditional sports development at present and the focus of future research [9]. How to use the content of sports shuttlecock inheritance to promote the development of sports shuttlecock inheritance is an urgent problem to be solved at present [10]. Therefore, this paper deeply analyzes the content and influencing factors of sports shuttlecock inheritance and analyzes the internal driving force of sports shuttlecock inheritance, aiming at finding an effective method of sports shuttlecock inheritance.

3. Research Method

3.1. Inheritance Analysis of Traditional Sports Shuttlecock.

Traditional sports shuttlecock inheritance analysis methods mainly simulate mining behavior, including key data search, in-depth mining, and deep calculation and realize sports shuttlecock inheritance analysis. At initialization, the number of sports shuttlecock inheritance is the same. Different sports shuttlecock inheritance status is affected by different factors. Firstly, the inheritance index of sports shuttlecock is randomly generated, the influencing factors with better fitness value are selected, and the inheritance mechanism of sports shuttlecock is analyzed with this influencing factor as the core, and the “secondary” factors, about 1/3, are eliminated by screening. Then, use the reincarnation strategy to choose the most obvious factors that affect the inheritance of sports shuttlecock and give corresponding weights. Finally, give up the influencing factors that do not meet the threshold and analyze other sports shuttlecock inheritance indicators. If the sports shuttlecock inheritance has not been comprehensively analyzed after the preset cycle, that is, the judgment matrix is 0, the search of sports shuttlecock inheritance will be abandoned, and the existing sports shuttlecock inheritance will be deeply excavated [11]. At the same time, a new sports shuttlecock inheritance index is randomly generated for the next judgment.

3.2. Sports Shuttlecock Inheritance.

Sports shuttlecock is a simple fitness activity, a traditional folk sports activity, which is widely spread in China and has a long history, which can be traced back to the mid-16th century at the earliest. Sports shuttlecock inheritance is not only a sports culture but also a spiritual culture, which belongs to a comprehensive sports content. Sports shuttlecock inheritance should do the following aspects, such as (1) extensive participation and mastering shuttlecock sports skills [12]; (2) everyone can teach shuttlecock, including content, action, and essentials; (3) spreading, folk, official, and major competitions [13]; and (4) connotation, cultural connotation, sports connotation, and spiritual level. The extension of sports shuttlecock inheritance includes (1) the extension of sports spirit; (2) content extension, sports content, teaching content, and inheritance content; and (3) continuous characteristics, continuous sports, and continuous inheritance.

3.3. Game Study of Shuttlecock.

The game study of shuttlecock is the development of shuttlecock based on game theory and it is a comprehensive research result. Shuttlecock requires not only content inheritance, technology inheritance, and spirit inheritance but also inheritance scope and level [14]. The integration of sports shuttlecock inheritance and other cultures requires mastering the corresponding development trends and the current development of the game decision model, as shown in Table 1.
As can be seen from Table 1, the integration of game decision model and game decision is good, and the overall development potential is great [15]. However, the integration of sports shuttlecock inheritance and game theory needs to be deepened to promote the improvement of sports shuttlecock inheritance level.

3.4. The Influence of Game Decision Model on the Inheritance of Sports Shuttlecock. The methods of sports inheritance classify the inheritance content of sports shuttlecock into continuous inheritance, stage inheritance, temporary inheritance, etc. and then guide the inheritance content and formulate a guidance plan with the guidance frequency of twice a week. At the same time, a sports shuttlecock inheritance steering group was set up with government personnel (7 people) [16], sports experts (6 people), and traditional culture experts (3 people) as members, and questionnaires on sports shuttlecock inheritance were distributed to various platforms to understand the situation of sports shuttlecock inheritance. Finally, the content of sports shuttlecock inheritance is analyzed by game decision, and a targeted sports inheritance promotion system is formulated.

The indicators of sports shuttlecock inheritance are inheritance consciousness, inheritance thought, inheritance behavior, inheritance psychology, social mechanism, and auxiliary measures. The auxiliary indicators are the social environment, national policies, government support, and

<table>
<thead>
<tr>
<th>Theoretical level</th>
<th>Fusion degree of shuttlecock and game decision-making</th>
<th>Influence of game decision on shuttlecock</th>
<th>Statistic G</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9.0754</td>
<td>9.0754</td>
<td>1.0124</td>
<td>0.3143</td>
</tr>
<tr>
<td>2</td>
<td>10.2714</td>
<td>10.2714</td>
<td>1.9161</td>
<td>0.1663</td>
</tr>
<tr>
<td>3</td>
<td>9.6355</td>
<td>9.6355</td>
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</tr>
<tr>
<td>4</td>
<td>8.3458</td>
<td>8.3458</td>
<td>0.2140</td>
<td>0.6436</td>
</tr>
<tr>
<td>5</td>
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<td>8.6798</td>
<td>0.2595</td>
<td>0.6105</td>
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</tr>
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<td>9.3837</td>
<td>0.4784</td>
<td>0.4891</td>
</tr>
<tr>
<td>8</td>
<td>10.0807</td>
<td>10.0807</td>
<td>1.2322</td>
<td>0.2670</td>
</tr>
<tr>
<td>9</td>
<td>9.9971</td>
<td>9.9971</td>
<td>1.2897</td>
<td>0.2561</td>
</tr>
<tr>
<td>10</td>
<td>10.3176</td>
<td>10.3176</td>
<td>2.2211</td>
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</tr>
<tr>
<td>11</td>
<td>8.5182</td>
<td>8.5182</td>
<td>0.6489</td>
<td>0.4205</td>
</tr>
<tr>
<td>12</td>
<td>10.1543</td>
<td>10.1543</td>
<td>1.4693</td>
<td>0.2255</td>
</tr>
<tr>
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<td>0.3268</td>
</tr>
<tr>
<td>14</td>
<td>8.9299</td>
<td>8.9299</td>
<td>0.5952</td>
<td>0.4404</td>
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<tr>
<td>15</td>
<td>8.5012</td>
<td>8.5012</td>
<td>0.6643</td>
<td>0.4150</td>
</tr>
<tr>
<td>16</td>
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<td>9.6960</td>
<td>1.5502</td>
<td>0.2131</td>
</tr>
<tr>
<td>17</td>
<td>9.2922</td>
<td>9.2922</td>
<td>0.6693</td>
<td>0.4133</td>
</tr>
</tbody>
</table>
personal situation. In view of the above indicators, this paper analyzes and evaluates the inheritance of shuttlecock and predicts the future inheritance results of shuttlecock.

Research methods: according to the requirements of shuttlecock experts, sports organizations, and the development direction of national sports, the “Shuttlecock Development Thought Investigation,” “Shuttlecock Sports Investigation,” and “Shuttlecock Policy Investigation” were formulated. The recovery rate of the questionnaire is 99.2%, the validity is 0.88, and the reliability is 0.84. The investigation process is shown in Figure 2.

After obtaining the above questionnaire, the investigators use the way of real name reporting, score the corresponding results, and count the corresponding results. Scoring is uniformly processed to realize the standard processing of data.

3.5. Game Description of Sports Shuttlecock Inheritance

**Hypothesis 1.** The result of sports shuttlecock inheritance in the game decision model is $J$, the inheritance index is $x$, the inheritance degree is $x$, and the specific inheritance guidance effect is $y$ [17], then the inheritance result of the game decision model is shown in Formula (1).

$$J = \sum_{i=1}^{n} \frac{\Delta x_i \cdot \Delta y_i}{x_i \cdot y_i(i + 1)}.$$  

**Hypothesis 2.** The inheritance level of sports shuttlecock inheritance in the game decision model is $L$, the inheritance degree is $x$, the inheritance process is adjusted $t$, and the inheritance psychological process is $s$, then the calculation of the inheritance and development of sports shuttlecock inheritance is shown in Formula (2).

$$L = \frac{\sum_{i=1}^{n} c_i + \sum_{i=1}^{n} t_i + \sum_{i=1}^{n} u_i}{\zeta + \tau + v} \cdot \frac{1}{i}.$$  

According to the Formula (1) and (2), the process statistical analysis between the evaluation indexes of different shuttlecock inheritance shows that $P < 0.15$ represents the difference. When the sports shuttlecock inheritance index has been comprehensively analyzed for many times and reached the analysis limit, the key data search will be changed into deep mining to find new sports shuttlecock inheritance index and judge new influencing factors [18]. Due to the strong randomness and poor antidisturbance ability of sports shuttlecock inheritance judgment, errors will occur in the early stage of sports shuttlecock inheritance analysis. In order to reduce the occurrence probability of sports shuttlecock inheritance error, the game decision model is used to reduce the uncertainty of sports shuttlecock inheritance and help sports shuttlecock inheritance reduce errors.

4. Results

4.1. Relationship between Sports Shuttlecock Inheritance and Game Decision Model. There are correlations in shuttlecock inheritance concept, sports shuttlecock inheritance behavior, government support, sports shuttlecock inheritance multiangle inheritance measures, etc., and there are few deviations from the game decision model. The specific results are shown in Figure 3.

It can be seen from Figure 3 that there are significant differences between the inheritance of sports shuttlecock and the game decision model, which shows that they can be analyzed independently.

4.2. Inheritance Stage of Sports Shuttlecock. In the initial stage, if the judgment of sports shuttlecock inheritance cannot guarantee comprehensiveness, it may fall into the “trap”...
of early judgment and reduce the overall performance of the judgment result of file verification mechanism [19]. In the adjustment process of sports shuttlecock inheritance, the accuracy of sports shuttlecock inheritance can be improved, and the extreme value of data analysis is on the data plane of big data samples. Therefore, in the process of sports shuttlecock inheritance analysis, we should try our best to expand the judgment range, narrow the judgment range near the main influencing factors of the mechanism, and constantly adjust the indicators to improve the rationality of sports shuttlecock inheritance analysis. The inheritance level of sports shuttlecock in international sports shuttlecock inheritance is mainly four grades, and the gap between each grade is relatively small [20]. The results as shown in Table 2.

From the data in Table 2, it can be seen that sports shuttlecock inheritance plays an increasingly obvious role in the international game decision-making model, and its role is more obvious in the fourth stage. However, the change of inheritance level in different stages is not obvious, which shows that the inheritance function of sports shuttlecock inheritance is relatively stable and indirectly proves the effectiveness of inheritance function [21].

4.3. Inheritance Results of Sports Shuttlecock. There are significant differences in indicators as independent variables, including shuttlecock inheritance concept, sports shuttlecock inheritance behavior, government support, and sports shuttlecock inheritance multiangle inheritance measures,
Table 3: Multifaceted analysis of different indicators.

<table>
<thead>
<tr>
<th>Independent variable</th>
<th>Decision scenario 1</th>
<th>Decision scenario 2</th>
<th>Decision scenario 3</th>
<th>Decision scenario 4</th>
<th>OR</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shuttlecock inheritance concept</td>
<td>7(58.3)</td>
<td>2(16.7)</td>
<td>2(16.7)</td>
<td>1(8.3)</td>
<td>1.232</td>
<td>12(100.0)</td>
</tr>
<tr>
<td>Inheritance behavior shuttlecock</td>
<td>3(75.0)</td>
<td>0(0.0)</td>
<td>0(0.0)</td>
<td>0(0.0)</td>
<td>0.865</td>
<td>4(100.0)</td>
</tr>
<tr>
<td>Government support</td>
<td>0(0.0)</td>
<td>0(0.0)</td>
<td>0(0.0)</td>
<td>0(0.0)</td>
<td>2.561</td>
<td>0(0.0)</td>
</tr>
<tr>
<td>Propaganda is not in place</td>
<td>11(61.1)</td>
<td>3(16.7)</td>
<td>2(11.1)</td>
<td>1(5.6)</td>
<td>-5.234</td>
<td>18(100.0)</td>
</tr>
<tr>
<td>Dependent variable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Comprehensive result $P = 0.8454$, random coefficients $= 0.5340$

5. Discussion

With the rapid progress of sports shuttlecock inheritance, the public’s awareness of inheritance is gradually enhanced, which makes the relationship between game decision-making model and sports shuttlecock inheritance increasingly enhanced, and the inheritance of sports shuttlecock is gradually improved. The key to the inheritance of sports shuttlecock is to choose scientific and reasonable methods, find out the influencing factors of inheritance, and better guide the inheritance. Because the game decision-making model, combined with the data in Table 3, the overall inheritance guidance effect of sports shuttlecock inheritance is obtained, as shown in Figure 4.

According to Figure 4, we can see that the influence of game decision model on sports shuttlecock is relatively stable, and the change range of influence degree is small. At the same time, in the analysis of $0 \sim 9$ months, the influence degree is at the level of $10\% \sim 13\%$. There is no serious deviation in the values of each key point. Therefore, the overall score is better. The fitness value of the game decision model is good and can reach the limit. Under the same uncertainty, the stability of the game decision model is higher, and the inheritance analysis of sports shuttlecock is more reasonable and accurate. The reason is that the game decision-making model reduces the influence of uncertainty on the judgment results. The game decision-making model adopts different inheritance schemes for different countermeasures to improve the accuracy of inheritance judgment results.
The results of this study show that there are significant differences in sports shuttlecock connotation, sports shuttlecock content, inheritance consciousness, inheritance behavior, and inheritance psychology. It is suggested that sports shuttlecock inheritance has a strong influence on the indexes of sports shuttlecock inheritance, including inheritance consciousness, inheritance behavior, and inheritance psychology. However, inheritance consciousness, inheritance behavior, and inheritance psychology are also influenced by different cultures, such as the connotation and content of sports shuttlecock. Therefore, colleges and universities should build a team sport shuttlecock learning model according to the connotation and content of sports shuttlecock and inherit the development of game decision-making model. At the same time, we should fully consider the personal physical condition and improve the inheritance effect of the game decision model. Some scholars on 65 cases of researchers found that the game decision model can carry out factor analysis of sports shuttlecock inheritance, the analysis results are ideal and consistent with the results of this study [23]. Some scholars have proposed that young people aged 20~30 should analyze the inheritance of sports shuttlecock to verify the influence of game decision model on the inheritance of sports shuttlecock [24]. The results show that the analysis results of game decision model on the inheritance of sports shuttlecock are more accurate and can improve the accuracy by 20%, which is consistent with the research results of this paper. Moreover, negative influencing factors can be found to further verify the results of this paper. Related research by domestic scholars shows that the results of this study are consistent with the related studies in China.

5.1. Influencing Factors of Sports Shuttlecock Inheritance. The results of this study show that there are significant differences in sports shuttlecock connotation, sports shuttlecock content, inheritance consciousness, inheritance behavior, and inheritance psychology. At present, the academic circles think that the content and inheritance consciousness of sports shuttlecock are the main methods that need to be paid attention to, but there is a lack of comprehensive analysis methods. In addition, the inheritance of sports shuttlecock is affected by many factors, which need to be analyzed with the game decision model and formulate corresponding strategies and schemes according to the game decision results. The specific research results are as follows.

5.2. Evaluation Grade of Game Decision Model. The inheritance of game decision model is divided according to grades, which can better evaluate the inheritance level of sports shuttlecock, suggesting that the inheritance level of sports shuttlecock is higher under the condition of 1~2 grades. In the game decision-making model, found that the sports shuttlecock inheritance should be based on the basic inheritance, and then carry forward the shuttlecock inheritance. In the inheritance of 3~4 levels, it is not a simple inheritance guidance, but a comprehensive inheritance plan needs to be formulated. In the process of sports shuttlecock inheritance, the influence of personal quality and consciousness should be considered repeatedly, so it should be analyzed more comprehensively. Studies have shown that it is difficult to inherit the 1~2 grades, so it is necessary to increase the inheritance and publicity of sports shuttlecock. Some scholars suggest that the first to second level inheritance guidance should adopt a phased approach to reduce the difficulty of inheritance. Although sports shuttlecock inheritance has achieved certain results, but the impact on shuttlecock inheritance is not obvious, so it is necessary to comprehensively analyze and inherit according to the evaluation level [25]. Related research by domestic scholars shows that the results of this study are consistent with the related studies in China.

5.3. Inhibition of Negative Factors. Negative factors are the inhibitory factors to the inheritance of sports shuttlecock, so we should find a more comprehensive negative factor and make corresponding adjustments to reduce the impact of negative factors on sports shuttlecock. Some research results show that publicity is the key to the inheritance of sports shuttlecock, while negative factors will affect the inaccurate publicity [26]. Some scholars have analyzed 65 researchers and found that inadequate publicity will seriously affect negative factors. Research scholars also show that the low education level, lack of participation consciousness, and imperfect government support mechanism in sports shuttlecock inheritance are also the main negative factors consistent with the results of this study [27]. In the study, the negative factors of propaganda, inheritance, and lack of awareness will seriously affect the inheritance of sports shuttlecock. Therefore, negative factors have a great negative effect on the inheritance of sports shuttlecock, which needs further analysis. Related research by domestic scholars shows that the results of this study are consistent with the related studies in China.

The results of this paper show that sports shuttlecock inheritance behavior, shuttlecock inheritance concept, government support, sports shuttlecock inheritance multilayer inheritance measures, and inadequate publicity are the main factors of sports shuttlecock inheritance, which have a serious impact on the level of sports shuttlecock inheritance. The above factors can be used as the evaluation index of game decision-making model and can also be used as the basis for formulating the guiding measures of sports inheritance. Sports institutions and universities can refer to the above contents, formulate the evaluation system of shuttlecock sports inheritance, and better analyze the inheritance of shuttlecock sports. At the same time, the above factors are combined with the game decision model to analyze the inheritance of sports shuttlecock more comprehensively and make a comprehensive judgment on the future results.

6. Conclusion

As an important folk sports content, the inheritance of sports shuttlecock can promote the development of traditional sports. However, how to find out the main influencing factors and inherit the sports shuttlecock culture more effectively is an urgent problem to be solved at present. In view of
the above problems, this paper analyzes the influencing factors of sports shuttlecock inheritance. The results show that (1) there is a significant correlation between sports shuttlecock inheritance and game decision-making model, (2) education inheritance behavior, shuttlecock inheritance concept, government support, multiangle inheritance measures of sports shuttlecock inheritance, and inadequate publicity are the main aspects affecting the inheritance effect, and (3) sports shuttlecock inheritance should aim at the influencing factors and build an inheritance evaluation system. There are some limitations in this study, mainly in the following aspects: (1) the research on the development root of shuttlecock is not deep enough; (2) the investigation data of shuttlecock is not deep enough; (3) the investigation data of shuttlecock needs to be deepened, and the existing index needs to be optimized. At the same time, universities and sports institutions should formulate corresponding measures and promotion programs according to the content and development level of inheritance. There are still some deficiencies in this study, mainly reflected in the lack of detailed analysis of various factors in the inheritance of sports shuttlecock, as well as the dynamic analysis of the game decision model. In the future research, we will focus on the analysis of the above problems in order to improve the accuracy of the research results.

Data Availability

The data used to support the findings of this study are available from the corresponding author upon request.

Conflicts of Interest

The author declares that there are no conflicts of interest.

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