Retraction

Retraction: Investigation on Gender Equality and Social Development of Ethnic Minorities Based on Computer Big Data (J. Phys.: Conf. Ser. 1744 032166)

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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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Investigation on Gender Equality and Social Development of Ethnic Minorities Based on Computer Big Data

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Abstract. With the iterative development of computer big data technology, it is applied to the survey of gender equality of ethnic minorities. It is found that at least half of them are at a higher level of gender inequality based on gender equality indicators, which indicates that there are big problems in social development and gender equality of ethnic minorities. Based on this, this paper first analyzes the current situation and problems of gender equality and social development of ethnic minorities, then carries out a survey of gender equality and social development of ethnic minorities based on computer big data, and finally gives the countermeasures and suggestions for gender equality and social development in minority areas.

Keywords: Big Data, Gender Equality, Social Development, Ethnic Minorities

1. Introduction

With the development of computer big data technology, people's traditional way of life and production has been greatly affected. In recent years, survey data show that at least half of the countries in the world measured by gender equality indicators are at high or very high levels of gender inequality. At present, information technology represented by computer big data has brought unprecedented opportunities and new challenges to human development[1-3]. In order to make full use of the new technologies of big data, it is necessary to emphasize the ability and creativity of human beings to learn new skills. At the same time, they should also develop their unique characteristics and talents with stronger empathy and originality, so as to ensure gender equality in society and the development and progress of ethnic minority society[4-6].

In the current process of profound economic and social change, the contribution of gender equality is very important. Societies are more likely than ever to lose half of the human skills, ideas and perspectives to achieve the promise of a more prosperous and people-oriented future, the future that good governance innovation and technology can bring. The advanced technology represented by big data of computer may lead to new gender gap, and the risks related to new gender gap may appear. In the era of increasingly important human skills and complementary technologies, the world can not deprive a certain gender of talent in the field of talent scarcity.

In current China, gender equality and social development of ethnic minorities should gradually become one of the hot topics of scholars, experts and the whole society. With the deepening of
relevant academic research, it reflects more and more rich and complex living conditions of ethnic minorities, especially when women in ethnic minority society challenge the universal model with their own experiences, all kinds of ideological trends also promote a complex theoretical framework to analyze the complex social development history and reality of ethnic minorities. The current social gender does not come from a single, common and non historical source, which requires that the relevant research on gender equality must be comprehensively judged based on the following several aspects as shown in Figure 1, and the interaction and connection between these aspects should be analyzed.

![Figure 1. Determinants of gender equality.](image)

In addition, with the rapid development of China's social economy and the enhancement of the mobility of the whole society, the enhancement of occupational mobility is very obvious. Although gender roles give different gender groups different survival criteria and value standards, women's professional class status and career mobility probability are gradually changing with the times. In such a realistic background, research on the reality of gender equality based on computer big data has been related to the realization of gender equality in the development of national society. At present, there are two different views on gender equality of ethnic minorities: status access and status structure. The former reflects the relationship between gender equality and its integration into the social structure, while the latter expresses a view of gender structural inequality caused by the stratification of social structure. However, no matter what kind of theory can not do without the investigation of the background of the social development of ethnic minorities. Therefore, the research on gender equality and social development of ethnic minorities based on computer big data has important practical value.

2. The status quo and problems of gender equality and social development of ethnic minorities

2.1. Gender equality and social development of ethnic minorities
At present, there are still serious gender problems in ethnic minority society, such as girls dropping out of school and low adaptability of female migrant workers. With the development of China's urbanization, there are still a large number of minority rural women working in cities and towns every year, which leads to a series of social problems as shown in Figure 2 below. With these situations, it can be seen that the current situation of ethnic minorities' social development and gender equality are more serious, so it is necessary to conduct in-depth analysis of the reasons, so as to carry out the relevant response work.
2.2. The origin of gender equality and social development of ethnic minorities

At present, both the social development and gender equality of ethnic minorities are inseparable from the development process and religious development background of ethnic women. Therefore, the analysis of gender equality and social development of ethnic minorities needs comprehensive consideration from religious belief to tourism culture. Secondly, due to the lack of attention and in-depth research on gender equality and social development of ethnic minorities, whether from the level of government agencies or non-governmental organizations for a long time, these issues have not been paid enough attention. In addition, due to the large number of ethnic minorities in China, their social development is also extremely unbalanced, and due to the long-term failure of relevant government departments and institutions as well as non-governmental organizations to establish effective guiding theories and operational and practical response programs, gender equality and social development of ethnic minorities have always been prominent.

2.3. Gender equality and social development of ethnic minorities

First of all, the government should actively promote gender equality and good governance, and guide non-governmental organizations to carry out gender, participatory and leadership training activities. Secondly, it is necessary to re-examine the orientation of social development of ethnic minorities and gender issues, introduce the concept of gender equality into minority society, build a solution network of social development problems of ethnic minorities, promote gender equality of ethnic minorities and promote social harmony. In addition, it should also study the importance of the diversity of cross-cultural gender equality from the perspective of ethnic studies and gender sensitivity, find out the disharmonious elements in the minority culture with gender as the main line, integrate effective resources, and promote the solution of social problems of ethnic minorities with the power of groups.

Finally, it should pay attention to the protection of minority culture and natural environment and the development of ethnic communities from the perspective of gender based on the ethnic culture and social gender. It should build gender equality awareness in ethnic minority areas and promote the construction and development of a harmonious society. It should also build a platform for promoting gender equality in ethnic minority areas through cross-cultural research on gender equality, and promote gender equality and social development in ethnic minority areas based on the effective cooperation of government, non-governmental organizations and other institutions and departments.

3. Gender equality and social development of ethnic minorities based on computer big data

3.1. Gender equality survey based on computer big data

Based on the computer big data technology, it can be more convenient to find the gender bias and discrimination existing in the current minority society. With the iterative development of artificial intelligence technology represented by big data, it can develop some hidden gender bias in the current society. For example, based on big data technology, it is easy to find that there is a more serious
masculine expression in the description of some more important social positions, while in some lower level social job terms, it is often replaced by feminine expression. This reflects the deep-rooted hidden gender prejudice in the current society.

Secondly, based on big data, gender bias in image data is also found. For example, in daily social scene images, scenes related to family environment are often associated with female elements, while workplace and some more advanced occasions are often associated with male elements. These gender discriminations can be easily identified and found by big data algorithm. Although the gender bias in some scenes is more implicit, the social development problems brought by it can not be ignored, which easily leads to more serious negative effects.

3.2. Survey of social development of ethnic minorities based on big data of computer

Based on big data analysis, most of the minority areas are still dominated by agricultural production activities, and the output of their economic activities is still mainly obtained by physical labor. In this context, most minority women have to rely on men to get better economic returns. Secondly, the social concept of male preference in ethnic minorities is more common and serious, and affected by this concept, it is difficult to realize the economic independence of women in minority areas, and it is difficult to improve their family status and social status, which seriously affects the healthy development of minority society. In addition, in the social and political status of ethnic minority areas, it is difficult for women to enter the management and decision-making levels of social and political circles. For example, women's discourse power is very low, and women's role in political participation is very small.

Moreover, as an important indicator to measure the social characteristics and development level, the education level of social population reflects the development degree of its social economy and civilization. At present, the inequality of women's education in minority areas is particularly prominent, and women's education resources are seriously insufficient. Through the above level of big data analysis, we can see that at present, there are still serious gender inequality and prejudice in the minority society as shown in Figure 3, which has seriously affected the normal development of minority society.

![Figure 3](image-url)

**Figure 3.** The gender inequality and prejudice in the minority society.

4. Countermeasures on gender equality and social development in minority areas

4.1. Using computer big data technology to promote gender equality

First of all, with the aid of AI means such as big data, it can promote the elimination of gender inequality. For example, it is easy to first use negative and positive expressions in the description of social positions, so as to avoid gender bias. Secondly, based on computer technology innovation can further liberate women's restrictions in housework, so that they have more free time and space to pursue their own greater values and goals. In addition, on the level of women's social status, the modern intelligent technology represented by computer big data can endow women with higher value
and status at the emotional labor level, and help women realize the promotion and improvement of career planning level, so as to promote their establishment of a more advantageous value position.

4.2. Realizing gender equality in the social development of ethnic minorities

First of all, it is necessary to promote the gender mainstreaming of ethnic minorities, establish a new gender culture, and promote the real development of minority women. Secondly, it is necessary to guarantee the equal rights and opportunities for minority women to obtain resources, strengthen the education of minority women in order to comprehensively improve their quality, and strengthen the protection of rights to effectively protect the legitimate rights and interests of minority women. In addition, in order to broaden the employment channels of ethnic minority women, it is necessary to establish and improve the government intervention mechanism for women’s employment, so as to protect the normal working rights and interests of minority women.

5. Conclusion

In summary, information technology represented by computer big data has brought unprecedented opportunities and new challenges to human development. Making full use of big data technology can not only improve human's ability to learn new skills and creativity, but also develop unique human characteristics and talents with stronger empathy and originality, so as to ensure gender equality in society and the development and progress of ethnic minority society. Through the analysis of the status quo and problems of gender equality and social development of ethnic minorities, this paper studies the gender equality problems existing in ethnic minority areas, and analyzes the social development status of ethnic minority areas through the survey of gender equality and social development of ethnic minorities based on computer big data. Finally, through the analysis of the suggestions of gender equality and social development in minority areas, this paper studies the role and function of computer big data.

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