



Visual Analysis of Rural Revitalization and Urbanization Research Progress Based on CiteSpace

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Abstract. In this paper, rural revitalization and urbanization were used as the keywords to search and screen the literature in CNKI, and the literature search scope was the literature in the past five years from 2018 to 2023, with a total of 1786 literatures, and CiteSpace was used to visually analyze the 200 journal literatures screened. From the analysis of the co-occurrence of the publication time, authors, institutions and keywords, the results show that the number of publications in the field of rural revitalization and urbanization in China shows an "explosive" growth trend, and there is a close relationship between the research enthusiasm and policy orientation in this field. The theoretical research on urban-rural relations, the development path of urban-rural integration, the policy of urban-rural integration development, and the case study of urban-rural integration development are the core issues of concern in this field. Domestic research as a whole presents a trend of coexistence of decentralized research and group research. The Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences and the School of Resources and Environment, University of Chinese Academy of Sciences, are the "main forces" in the research on the relationship between rural revitalization and urbanization. The National Social Science Foundation of China and the National Natural Science Foundation of China are key funding projects to support the research on the relationship between rural revitalization and urbanization. In the future research, on the one hand, it is necessary to strengthen academic exchanges and cooperation between researchers and research institutions, and on the other hand, it is necessary to strengthen the research on the new trend of urban-rural integration development under the new development background of digital economy.

Keywords: Rural Revitalization, Urbanization, Citespace.

1 Introduction

This paper takes rural revitalization and urbanization as the theme words. The literature search range covers the last five years from 2018 to 2023, with a total of 1786 documents. 200 selected journals were visually analyzed by CiteSpace. From the publication time, publication author, organization, keyword co-occurrence analysis, The results show that the number of articles in the field of rural revitalization and urbanization shows a "explosive" growth trend, There is a close relationship between the heat of

research in this field and policy orientation; Theoretical study of the urban-rural relations, The path of integrated urban and rural development, Policies on integrated urban and rural development, The case study of urban-rural integrated development is the core issue of this field; Domestic research presents a trend of coexistence of decentralized research and group research; The Institute of Geographic Sciences and Human Resources of the Chinese Academy of Sciences and the School of Resources and Environment of the University of the Chinese Academy of Sciences are the "main force" of the research on the relationship between rural revitalization and urbanization; The National Social Science Foundation and the National Natural Science Foundation of China are key funding projects to support research on the relationship between rural revitalization and urbanization. In the future research, on the one hand, we should strengthen the academic exchanges and cooperation between researchers and research institutions, and on the other hand, we should strengthen the research on the new situation of urban-rural integrated development under the digital economy with the new development background.

2 Research Methods and Data Sources

2.1 Research Methods

This article uses CiteSpace 6.2.R2 for visual analysis, based on the literature data collected from CNKI, and conducts research from the perspectives of publication time, authors, institutions, and co-occurrence of keywords.

2.2 Data Sources

This study's data uses source documents from China National Knowledge Infrastructure (CNKI) as sample data. To ensure comprehensive retrieval information, on the homepage of CNKI, in the document retrieval section, the search topic was set to "Rural Revitalization and Urbanization", with the years ranging from 2018 to 2023. There were a total of 1,786 documents retrieved, and after excluding those that did not meet the requirements, 200 results were obtained. These 200 documents serve as the data source for analysis.

3 Statistical Analysis

3.1 Distribution of Publication Time

Using the bibliometric analysis function of CNKI literature management center, an analysis of the number of publications was conducted on 200 core documents, showing a year-on-year increase in the number of related documents.

3.2 Analysis of Publication Authors and Institutions

This paper uses CiteSpace software to conduct co-occurrence analysis on 200 documents, generating a co-occurrence network map of authors from 2018 to 2023. The size of the nodes represents the number of articles contributed, and the thickness of the connections represents the closeness of collaboration. There are 160 nodes and 71 connections, with a network density of 0.0056, indicating a lack of high-yield authors and less collaboration in the fields of rural revitalization and urbanization (see Figure 1). Kong Zhixiang and Wen Feng'an both published 3 articles, while Wu Bibo, Zhang Qiang, and several others published 2 articles each (see Table 1).

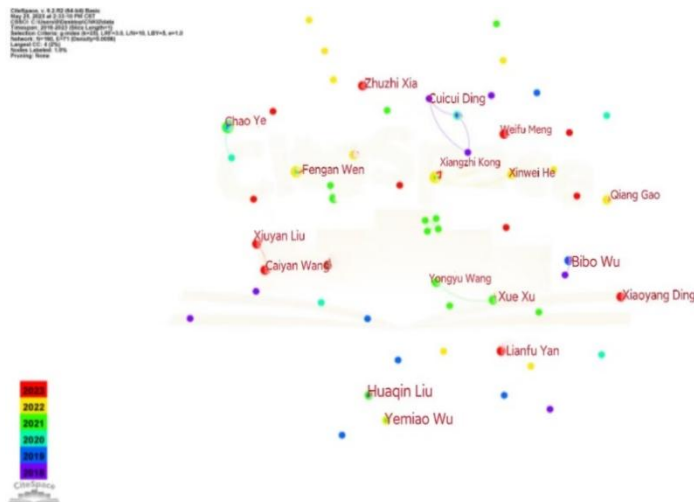


Fig. 1. Cooperation map of rural revitalization and urbanization published by the author

Table 1. Number of articles published by the major authors of rural Revitalization and urbanization research

Author	Year	Number of publications
Chao Ye	2019	3
Xiangzhi Kong	2021	3
Fengan Wen	2020	3
Bibo Wu	2018	2
Qiang Zhang	2020	2
Jinjun Duan	2021	2
Xinwei He	2022	2
Caiyan Wang	2023	2
Yongyu Wang	2021	2
Xue Xu	2021	2

The issuing institution forms 150 nodes, 61 connections, with a network density of 0.0055, sparse connections, mostly independent points, indicating a lack of collaborative publications. The main institutions issuing research on rural revitalization and urbanization are listed in Table 2.

Table 2. Main publishing institutions of rural Revitalization and urbanization research

Document organization	Year	Number of publications
School of Agriculture and Rural Development, Renmin University of China	2020	4
School of Economics and Management, China Agricultural University	2022	4
School of Geographical Science, East China Normal University	2019	3
School of Economics, Liaoning University	2020	3
School of Marxism, Jilin University	2023	3
School of Finance, Hebei University of Economics and Business	2023	2
School of Economics, Central-South University for Nationalities	2018	2
School of Economics, Henan University	2018	2
Soochow Business School of Soochow University	2021	2
School of Economics and Management, Northeast Agricultural University	2022	2

3.3 Keyword Analysis

Keyword Co-Occurrence Analysis. Cite Space The keywords of operation selection are node types, and the top five keywords are rural revitalization, urban-rural integration, urbanization, common prosperity, and urban-rural relations, indicating that rural revitalization plays a role in promoting urban-rural integration and urbanization, and is the focus of future research.

Keyword Cluster Analysis. After the rural revitalization strategy, a surge of research articles on rural revitalization and urbanization emerged, with the system gradually maturing. Based on keyword co-occurrence analysis, CiteSpace was used to form a cluster analysis map (see Figure 2).

Cluster 1: Urban and rural integration

Haiyirete X et al.(2023) considered that With the advancement of urbanization and the continuous deepening of reforms in urban-rural systems, China's urbanization process has entered a new era of integrated urban-rural integration [1].

Cluster 2: Urban-rural relations

Rahadini A (2023) considered that Urbanization and industrialization are an initial indication of the growth and expansion of urban areas to rural area [2].

Clustering 3: urbanization

Xun Quan (2023) considered that With the development of productive forces, China has entered a period of rapid urbanization development, and the rural areas have also gradually entered the modernization [3].

Clustering category 4: big cities

Bu Wei, et al.(2023) considered that Urban agglomerations such as the Beijing-Tianjin-Hebei region, the Yangtze River Delta, and the Guangdong-Hong Kong-Macao Greater Bay Area are becoming an important driving force for high-quality economic development [4].

Clustering 5: Industrialization

Qiu Yuanyuan(2023) considered that Agricultural industrialization is an important way to realize agricultural and rural modernization. The development of industry is the premise of rural reform, which has a huge role in promoting the development of new urbanization, and the development of new urbanization brings new vitality to the in-depth development of agricultural industrialization [5].

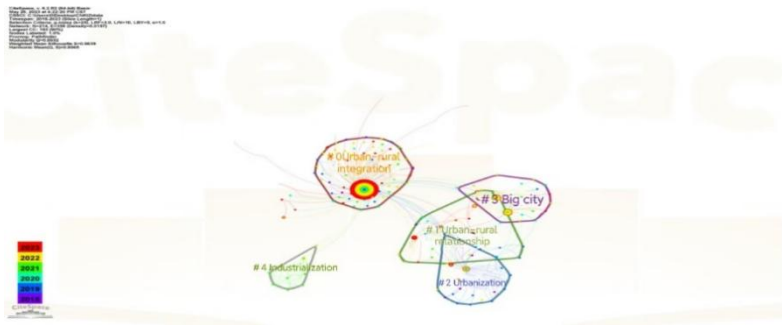


Fig. 2. Cluster map of keywords in rural revitalization and urbanization research

4 Conclusion

This paper in China know online search 2018-2023 annual rural revitalization and urbanization related academic papers, and use the software CiteSpace to search selected 200 journal literature carried out the visual analysis, from post time distribution, post authors and institutions, keywords, keyword clustering, research hotspot are analyzed, found the following conclusion.

From the perspective of the time distribution of the documents, since the proposal of the rural revitalization strategy of the 19th National Congress of the CPC, the number of articles on the relationship between rural revitalization and urbanization in China has shown a sustained trend. The main reason is that the release and implementation of relevant policies have continuously increased the number of publications in the research field on the relationship between rural revitalization and urbanization.

From the analysis of the authors and institutions, the overall connection is relatively loose. It shows that the academic connection between domestic scholars is not very

close. Among the publishing institutions, the School of Agriculture and Rural Development of Renmin University of China and the School of Economics and Management of China Agricultural University are the main force of the research on rural revitalization and urbanization. Therefore, in the future research on rural revitalization and urbanization, all parties should further establish more academic ties and strengthen academic exchanges.

From the analysis of key words, the main focus is on rural revitalization, urban-rural integration and urbanization Common prosperity, urban-rural relations, and rural governance and other aspects. In addition, around the rural construction, county economy, impact effect, rural planning and other keywords have also been widely concerned.

From the analysis of keyword clustering, according to the visual map generated by Citespace software, five clusters were formed, namely, urban-rural integration, urban-rural relationship, urbanization, big city and industrialization. Integrated urban and rural development is a major strategy for China to promote high-quality development and comprehensively build a modern socialist country in the new era. In promoting the integrated development of urban and rural areas, we must properly balance the relationship between rural revitalization and urbanization.

From the analysis of research hotspots, urbanization and anti-urbanization were the research hotspots in previous years. Urbanization can not only promote the coordinated development of urban and rural economy, but also improve the living standards and cultural level of rural residents. The emergence of anti-urbanization is of great significance to the local economic and social development, and can effectively promote the local economic development and social progress. The latest research hotspots are county economy, ecological environment and urban system, which can be discussed in the next step.

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