

# Rural Tourism and the Development of Characteristic Towns in China and Its Influence on Rural Areas

Zouchong Li

 <https://orcid.org/0009-0009-6936-5060>

Nanchang University, China

## ABSTRACT

This study explores the innovation pathways and sustainability of rural development in China, highlighting the critical roles of rural tourism and the construction of characteristic towns in addressing rural development challenges. Rural tourism is widely recognized as a vital driver for economic and social development in rural areas, prompting various regions to formulate supportive policies tailored to their unique characteristics. By leveraging big data analysis technology, this study seeks to integrate the development of rural tourism with the application of smart home systems. The goal is to propose precise and innovative development plans for constructing characteristic small towns. This approach aims to establish and enhance sustainable development mechanisms in rural China at both economic and social levels. Ultimately, it supports the rural revitalization strategy and fosters comprehensive, high-quality development in the context of new urbanization.

## KEYWORDS

Artificial Intelligence, Rural Revitalization, Sports and Wellness Town, K-Means Algorithm

## INTRODUCTION

Rural areas in China are facing serious challenges, such as economic stagnation and population decline. To address these issues, innovative solutions are essential. One promising approach is rural tourism, which can drive economic growth and foster community engagement. In this paper we investigate how rural tourism and the development of characteristic towns can be enhanced through data mining and smart home technologies.

Data mining involves extracting valuable insights from large datasets, making it a powerful tool for understanding tourist behavior (Ariyani et al., 2023; Zhou, 2021). By analyzing data from social media, booking platforms, and visitor surveys, local governments can tailor tourism offerings to better meet visitor preferences. For example, clustering algorithms can help identify different tourist interests, enabling towns to create targeted marketing campaigns that promote local attractions. However, addressing ethical concerns related to data privacy and representation through strong data governance practices is crucial (Xie & He, 2022).

Additionally, smart home technologies can significantly improve the quality of life for residents, especially the elderly (Kumar & Shekhar, 2020; Maja et al., 2020). These technologies offer health monitoring and emergency response features, allowing local health services to provide personalized

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wellness programs. This proactive approach not only enhances individual well-being but also strengthens community ties (Zhang & Zhang, 2020).

The goal of this research is to provide insights for policymakers on effective rural revitalization strategies. Specifically, we analyze how data mining can boost rural tourism, assess the impact of smart home technologies on residents' lives, and offer actionable recommendations for sustainable tourism practices. We showcase successful case studies that highlight the effectiveness of these technologies while addressing the ethical implications of data collection and advocating for community involvement.

## **RELATED WORK**

The intersection of rural tourism and the development of characteristic towns has garnered significant attention in both academic and policy circles, particularly in the context of rural revitalization strategies globally. In this section we review existing literature and projects that highlight the key concepts and frameworks relevant to our study, emphasizing the roles of rural tourism and town development in enhancing rural livelihoods and sustainability.

### **The Role of Rural Tourism in Economic Development**

Rural tourism has been widely recognized as a significant driver of local economic development, particularly in regions with limited economic opportunities. Banu (2024) emphasized that rural tourism offers diverse avenues for income generation, particularly in economically underdeveloped areas. By leveraging local cultural assets, traditions, and natural resources, rural tourism enables communities to attract visitors, thus stimulating local economic activities. The success of agritourism in China's Yunnan and Sichuan provinces, for example, highlights how integrating agricultural practices with tourism not only boosts farmers' incomes but also helps preserve local heritage (Yi et al., 2024).

Internationally, the potential of rural tourism in fostering economic recovery and sustainable development has been widely acknowledged. The Organisation for Economic Co-operation and Development (2021) noted that rural tourism plays a crucial role in the post-pandemic economic recovery by creating jobs and increasing local spending, which is particularly important for rural areas grappling with economic decline. Similarly, a study by Hussain, A., & Fusté-Forné (2021) in New Zealand underscored that rural tourism contributes to sustainable development by promoting local entrepreneurship and environmental stewardship, providing a model for other countries to emulate.

In addition, various case studies around the world further illustrate how rural tourism can strengthen the sustainability of rural areas. For example, Ćurčić et al. (2021) demonstrated the impact of rural tourism in Zlakusa village, where the development of tourism has enhanced the economic stability and sustainability of the community. Ćurčić et al.'s (2021) study aligns with one by Susila et al. (2024), who highlighted the importance of interconnectivity in agro-tourism development and argued that an integrated approach can better support rural economies. In a similar vein, Nedeljković et al. (2024) employed multi-criteria analysis to examine the sustainable tourist potential of Semberija, providing valuable insights into how sustainable tourism development can be tailored to specific rural contexts.

These studies collectively demonstrate that rural tourism has the potential to play a transformative role in local economic development. By leveraging natural resources, promoting cultural heritage, and integrating local agricultural practices, administrators of rural tourism can foster sustainable development, create employment, and improve the quality of life for rural communities globally.

### **Characteristic Towns as a Development Model**

The concept of characteristic towns has gained prominence in China's urbanization strategy; it serves as a model for integrating local culture, natural resources, and economic development. These towns were designed to emphasize the unique cultural and ecological features of their regions, acting as catalysts for rural revitalization and sustainable urbanization. According to a comprehensive

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