

AI-integrated smart community tourism system for itinerary planning

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Abstract: In the context of increasingly developing community-based tourism, effectively managing and optimizing the visitor experience is a major challenge. This topic focuses on building an intelligent system using artificial intelligence to schedule community-based tours. The objective of the research is to solve the problem of efficiently allocating tourism services and enhancing the experience for participants. The applied method combines both theory and experimentation to ensure the system's feasibility and high applicability. The expected result is a flexible and adaptable system that can serve various types of community-based tours, thereby contributing to the sustainable development of the tourism industry.

Keywords: community-based tourism, artificial intelligence (AI), itinerary scheduling