Abstract

[Project Information]

Project Title :	Development of Evaluation Methods for Environmental Values and User Fee Policies in National Parks
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[Abstract]

This study aims to quantify the environmental value of 34 national parks across Japan and to develop an analytical framework for assessing the impacts of national park policies—such as user fee systems—on these values. The goal is to inform policy strategies that effectively balance conservation and public use. A nationwide web-based survey was conducted, collecting visitation behavior data from 9,943 respondents. Based on this data, a visitor demand model was developed. Additionally, by integrating spatial environmental data (e.g., vegetation) with mobile phone big data, a "visitation–environment model" was constructed to analyze how the natural environment surrounding visitor centers influences visitation behavior. These models were further combined into an integrated framework, which was used to conduct simulation analyses evaluating the effects of user fees, visitor regulations, and vegetation changes. Based on the findings, the study proposes recommendations for future national park policy aimed at achieving sustainable park management.

[References]

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