

## **The Quantitative Analysis of Tourism Carrying Capacity with the Approach of Sustainable Development Case Study: Siahshard Fountain**

**Authors :** Masoumeh Tadayoni, Saeed Kamyabi, Alireza Entezari

**Abstract :** Background and goal of the research: In planning and management system, the tourism carrying capacity is used as a holistic approach and supportive instrument. Evaluating the carrying capacity is used in quantitative the resource exploitation in line with sustainable development and as a foundation for identifying the changes in natural ecosystem and for the final evaluation and monitoring the tensions and decays in regressed ecosystem. Therefore, the present research tries to determine the carrying capacity of effective, physical and real range of Siahshard tourism region. Method: In the present research, the quantitative analysis of tourism carrying capacity is studied by used of effective or permissible carrying capacity (EPCC), real carrying capacity (PCC) and physical carrying capacity (RCC) in Siahshard fountain. It is analyzed based on the field survey and various resources were used for collecting information. Findings: The results of the analysis shows that, 3700 people use the Siahshard tourism region every day and 1350500 people use it annually. However, the evaluation of carrying capacity can be annually 1390650 people in this place. It can be an important tourism place along with other places in the region. Results: Siahshard's tourism region has a little way to reach to its carrying capacity that needs to be analyzed. However, based on the results, some suggestions were offered for sustainable development of this region and as the most logical alternations for tourism management.

**Keywords :** carrying capacity, evaluation, Siahshard, tourism

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