



## Analysis of Justice in Distribution of Sport Services in Spatial (Case Study: Isfahan City)

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Research Article

### Extended Abstract

**Objective:** Urban services are a tool in management of urban development and a major factor in the continuity of urban life without which lives of citizens lose activeness and reduction in its efficiency causes reduced welfare of citizens. In fact, following the extension of cities and the growth of urban population, demand to use Urban services also increases. Exercise as an important scientific and educational category in strengthening the physical and mental strength of individuals. Access to sports clubs is directly related to a person's willingness to participate in physical activity. This study measures spatial justice in spatial distribution of sports services in Isfahan neighborhoods. Isfahan is one of the cities that has a lot of talent in various sports, with a lack of facilities and sports spaces.

**Methods:** The purpose of the study is practical and is descriptive-analytical in nature and method. To analyze the results, the basic graphical methods used in Arc GIS and Geo Da software are used. The method of data collection was library and after gathering basic statistics and information such as maps related to Isfahan Master Plan studies, location of sport services was determined and extracted. To analyze the data, the methods of analysis of the average nearest neighbor, the local Moran index, the global Moran index, the hot spot analysis, the Thiessen polygons and the two-variable Moran index in GeoDa Software for Spatial Correlation Analysis The population variables of Isfahan in relation to the distribution and area of sports services in the neighborhoods of Isfahan were used.

**Results:** : Nearest neighbor tool showed that sports services are distributed in Isfahan city. But according to the Moran Global index calculations, sports distributions, with 99% confidence, are distributed clustered across neighborhoods. By calculating the local Moran for Isfahan's neighborhoods, it was determined Two neighborhoods from Region 7 are significantly at the level of high- high clustering, which indicates the location of neighborhoods with more sports services nearby and in clusters. Also, a neighborhood from Region 7, which is located at the Low-Low level had formed a single clumsy formation, is faced with the lack of access to sports services and is adjacent to neighborhoods with better access. Other neighborhoods do not have significant autocorrelation. According to hot spot analysis maps, neighborhoods and central areas, especially areas 2, 8, 9 and 11, form hot spots due to the high establishment of sports services. Moving to the suburbs of the city, the amount of Z-Score is reduced and they move towards the formation of cold spots. This situation shows the severe shortage of sports services in these neighborhoods.

**Conclusion:** In general, the results indicate that the spatial distribution of sports services in the neighborhoods of Isfahan is inappropriate. Therefore, the lack of spatial distribution of sports services in the neighborhoods of Isfahan has led to lack of social justice and spatial justice. Therefore, using equal distribution mechanism of uses, services,

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opportunities and eliminating neighborhood inequalities are essential development priorities at the local-regional level. Therefore, the urban management system, along with other organizations involved in urban affairs, should provide the necessary steps and measures to organize a fair and efficient distribution of sports services as one of the types of urban facilities, in order to increase the health of people in the community. In this regard, suggestions were made for the fair distribution of sports services.

**Keywords:** Spatial Justice, Spatial Distribution, Sport Services, Isfahan Neighborhoods.

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