

Review of: "Study of environment-behavior in three types of the urban context of Tehran — Comparative analysis of the Chizar, Narmak, and Khazane neighborhoods' context using survey and space syntax methods"

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Potential competing interests: No potential competing interests to declare.

The paper presents an interesting topic and successfully addresses the research aim through a proper research design. The adoption of a combined research strategy, incorporating both space syntax and survey methods, makes the paper outstanding, adding more value to the research findings and contributions to the body of knowledge. I would like to share some comments that might enhance the paper's clarity and structure.

1. **Abstract:** It would be good to improve the abstract with adding few sentences about the research findings, as well as its contribution to this field of research and existing literature.
2. **Introduction:** the author begins the "introduction" by introducing the abbreviated form of the phrase "Environment-behaviour." As this is the first instance of the phrase's inclusion in the body of the paper, it is essential to spell out the entire term or phrase and present the corresponding abbreviation in parentheses. This initial step is crucial for ensuring that readers understand the complete term before encountering its abbreviated form. However, for subsequent references within the paper, it is acceptable to use only the abbreviation.
3. **References** are required to support some scientific claims in the paper, such as the following sentences:
 - The analysis of the physical aspects of the environment and their association with particular behaviours is a reliable approach for acquiring data for forthcoming designs. This is typically achieved by observing current behaviours or gathering input from users.
 - However, there are several notable limitations in the application of studies in this field. Some experts have blamed environmental psychologists for ignoring real-life design issues and others for reluctance to apply the findings of environmental studies.
 - The 32 for each context was assigned based on having more than 30 samples to apply parametric methods for calculating the correlation coefficients.
 - According to the results of the same study, historical contexts have more social interactions than modern cases.
4. It is not necessary to explain the limitations of the space syntax method in the "introduction". It can be mentioned either in the "discussion", or "conclusion" sections.
5. The "literature review" could be improved with reviewing some more recent references, as well as references that are

more relevant to the research area of the current paper, which is incorporation of space syntax and E-B studies.

6. The rationale for selecting the three case studies could benefit from further explanation. Why these particular neighbourhoods were chosen is briefly outlined at the beginning of the 'studied context' section, but providing a more comprehensive justification and introducing them earlier in the text, probably as the first sub-section of "methodology" section, would enhance the overall coherence and reader understanding.
7. To enhance the reliability of the questionnaire findings, providing additional information about the population size, and as a result, the sample size, would be beneficial. By including more details about these two factors, it helps the readers and researchers better understand the context and limitations of the study. For instance, knowing the population size and how the sample was selected (randomly or through a specific method) provides insights into the generalizability of the findings. According to Table 2, the population size for each neighbourhood is relatively large. Consequently, a larger and more representative sample size can often lead to more robust and reliable research outcomes. However, it is important to provide justifications for the smaller sample size, addressing factors like research time constraints or other relevant limitations.
8. To enhance the structure and clarity, the "research method" section can be divided into several sub-headings, like "case selection", "questionnaire survey", "space syntax analysis", and "data analysis".
9. To enhance clarity and reader comprehension, while using tables and graphs effectively for presenting the paper's results, it's essential to provide detailed explanations for each table and graph. Each table and graph presented in the paper unveils fascinating findings. However, it is essential to consider that these visual representations may not be readily understandable to non-professional readers in the specific field. By offering clear and concise explanations for the content within the tables and graphs, readers can interpret the information more easily and grasp the key takeaways from the research. These explanations can provide context, highlight trends, and offer insights that might not be immediately evident from the visuals alone. These explanations not only aid readers in understanding the significance of these parameters but also ensure that the findings are meaningful to a broader audience.
10. Please change the table 4 caption from "visual graph analysis" into **visibility** graph analysis".

Overall, the paper presents very fascinating finding and deserves to be published.