

# Review of: "Deconstruction of Gender Dynamics and Its Implications for Gendered Inclusive Design: Application of Urban Big Data and Interpretable Machine Learning Method in India"

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Potential competing interests: No potential competing interests to declare.

The manuscript titled "**Deconstruction of Gender Dynamics and Its Implications for Gendered Inclusive Design: Application of Urban Big Data and Interpretable Machine Learning Method in India**"

## Introduction:

The introduction effectively frames the research topic, providing a clear context for the study by addressing the significance of gender-related urbanism and the nuances of fear in public spaces. It skillfully links the research to feminist discourse and emphasizes the gender-sensitive perspective, setting the stage for the subsequent discussion. The use of references adds credibility to the argument and demonstrates a strong theoretical foundation. Overall, this section is exemplary in terms of its structure, relevance, and scholarly engagement.

## Correlation of Emotional Data and Image Segmentation:

This section introduces an interesting aspect of the study, exploring the correlation between emotional data and image segmentation. It is commendable that the manuscript aims to understand the emotional impact of urban spaces, particularly as it relates to gender segregation. However, it would be helpful to provide more context and details about the emotional data collection process and the specific emotions being studied. Additionally, a brief explanation of how the findings in this section contribute to the overall research objectives would enhance clarity.

## Method :

- The manuscript should provide a rationale for selecting Central Delhi, in a micro-scale, as the chosen case study within New Delhi, instead of considering other regions like South, East, or West.
- In the discussion section, I noticed the interpretation of the literature review, while in the analysis section, I observed the inclusion of correlation, space syntax analysis, QGIS, and urban configuration. However, the Methodology section lacks the detailed procedures for implementing these analyses, including correlation, space syntax analysis, and QGIS. This aspect is missing in the Methodology section.

## Discussion:

- In the discussion section, the author should interpret the quantitative results from the analysis. However, I did not see this. It would be better if we incorporate data interpretation as part of the discussion because the author has presented correlation, QGIS, Space Syntax analysis, and data.
- Despite the notes mentioned earlier, the discussion section effectively summarizes the study's objectives and findings. It highlights the research's contribution to the field, particularly in shedding light on the gender and emotion inclusivity of urban design guidelines. The discussion of gender inequalities and 'fear' patterns is insightful and adds depth to the analysis. The call for future research to explore the connection between urban design elements and emotions is appropriate, emphasizing the study's potential impact on urban planning. However, it might be beneficial to elaborate on the practical implications of the findings for urban designers and policymakers.

### **Conclusion:**

The conclusion succinctly summarizes the key takeaways from the research and offers a series of recommendations that are well-aligned with the study's objectives. These recommendations are valuable and address various aspects of gender-sensitive urban development. It is noteworthy that the conclusion highlights the intersection of gender, fear, and emotions as a global perspective and emphasizes the importance of atmospheric quality, among other factors. However, it would be helpful to provide more context or examples for some of the recommendations to facilitate better understanding and implementation.

### **Overall Assessment:**

The manuscript is a valuable contribution to the field of gender-related urbanism and inclusive design. It demonstrates a strong theoretical foundation, a robust methodology, and insightful findings. The manuscript effectively addresses the gender gap in urban design literature and offers practical recommendations for improving urban spaces. To further enhance the manuscript, the following suggestions are proposed:

Provide more context and details about the emotional data collection process and the specific emotions under study.

Elaborate on the practical implications of the findings for urban designers and policymakers in the discussion section.

Offer more examples or case studies to illustrate the practical application of the recommendations in the conclusion section.

Incorporate more recent sources into the literature review while integrating them with well-established references.