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"

Jose Balsa-Barreiro[1]

1 New York University, Abu Dhabi

The manuscript offers a thorough and detailed examination of gender-related spatial nuances in urban settings. Yet, a deeper fusion of human-focused insights with the technologically-driven methodology may be beneficial. By doing so, it could yield a more nuanced comprehension of women's real-world experiences in urban areas.

The manuscript is well structured and organized. However I have some concerns before it can be published. These are my suggestions:

The abstract, while addressing a salient theme, requires augmented clarity and precision in its opening remarks. A discernible abrupt transition exists between the qualitative and quantitative methods discussion. A succinct elaboration on qualitative outcomes before the shift might enhance fluidity. Technical terminologies should be elucidated or adapted for a wider readership. The abstract would benefit from a stronger spotlight on its central results and a pronounced declaration of its contributions, especially concerning the distinctive attributes of the proposed evaluation framework. Demarcating methodology from results and a concise conclusion about the study's pragmatic implications would elevate its overall presentation.

The introduction delineates the theoretical and historical backdrop of gender interplay in urban arenas. Yet, its profound theoretical exposition could be refined for heightened clarity and reader-friendliness. A structured partitioning or hierarchy of thoughts might bolster comprehension. Regarding the sentiment of 'feeling unsafe,' fortifying the link between this generalized emotion and feminist viewpoints would enrich the narrative depth.

For cartographic refinement, the figures demand an improved treatment, encompassing components like spatial legends. The discourse should underscore the significance of urban metrics and typologies pertaining to the streets adjacent to urban blocks, with a focus on geometric attributes and vegetative features. Recent publications on this subject should be contemplated.

In the 'Research Methodology' segment, despite an exhaustive methodological exposition, the reasoning behind certain choices appears absent. Expounding on why particular data reservoirs, such as the Open Street Map, were prioritized, or the rationale behind a machine-learning strategy would amplify depth. The selection of New Delhi, while warranted,

requires a tighter integration with its specific urban impediments and the research's overarching gender-centric objectives. An early addressal of the rift between the empirical approach and the discernment of human necessities would render a holistic grasp of the study's trajectory. A synthesis of these facets would craft a more lucid and well-founded research blueprint.

The discussion aspires to delineate the interplay of gender, architectural design, and emotional perception in urban landscapes. Nevertheless, a crisper articulation would be advantageous. The association between the prevalent culture of violence against women and their embedded fear, though underscored, can be reinforced with explicit study outcomes. The transition from discussing 'fear' patterns to the exploration of urban 'happiness' feels disjointed; a more seamless segue or rationale for this pivot is requisite. The proposition of sculpting a design methodology anchored in emotional metrics is captivating and merits a prominent place in the discourse. In addition, the discussion must be clearly extended including more references to relevant studies, authors and ideas.

The suggestions proffer a comprehensive blueprint for gender-aware urban planning. However, thematic categorization, such as 'Safety Protocols,' 'Architectural Tenets,' 'Community Engagement,' and so forth, might enhance clarity. The underpinnings of specific recommendations, such as advocating small-scale edifices or exclusive times for women, should be more lucidly detailed for those unacquainted with gender dynamics in urban environs. Refining certain points for lucidity and eschewing redundancies, like repetitive allusions to diverse spaces and their multi-purpose utilities, would refine readability and resonance.