

Peer Review

Review of: "Modeling and Simulating Agent-Based City Migration Using Conway's Game of Life"

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This study highlights the potential application of GoL, which has not been widely utilized in urban research within the field of ABMs. Given that urban research is one of the most significant topics in area studies today, this study is highly commendable for introducing a novel methodology to the field.

However, there are certain limitations that need to be addressed before this study can be considered for publication. I hope that my comments below will assist the authors in further refining their research.

ABMs have been applied in various fields, including urban development. Notable classic studies in this area include Allen (2004), White et al. (2015), and Baty (2017). However, this study does not engage with these foundational works and lacks a discussion on what aspects of ABM are innovative in the context of urban research.

Additionally, the study does not clearly articulate which specific aspects of urban environments it aims to explore through ABM. While the study mentions that population changes due to overpopulation and overcrowding are key mechanisms in the model, it does not specify what urban phenomena it seeks to explain. Contemporary urban challenges include, for example, skyrocketing land prices due to excessive speculation, overtourism, and environmental pollution. It would be beneficial for the authors to clarify how their research contributes to understanding or addressing these pressing issues.

Allen (2004) *Cities and Regions as Self-Organizing Systems: Models of Complexity*. Taylor & Francis

Baty (2017) *Inventing Future Cities*. MIT Press.

White, Engelen, Iuljee (2015) *Modeling Cities and Regions as Complex Systems: from Theory to*

Planning Applications. MIT Press.

Declarations

Potential competing interests: No potential competing interests to declare.