

Peer Review

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

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I like the paper's goal of understanding migration patterns through ABM; however, the current version of the paper is not solid enough. Here are some thoughts on how to strengthen your work.

- You need to state your contribution more clearly. For example, the literature review does not cover whether Conway's Game of Life has been applied to understanding migration.
- Your paper claims to simulate urban migration patterns, but other than starting from concentric rings with higher density in the middle, it seems like a very simplistic approach to model a city.
- Lastly, and most importantly, to understand if your hypothesis that Conway's Game of Life can be used to understand migration patterns is true, you should validate it. For example, you would need to find historical data on demand densities of different cities and compare the prediction of your model with what actually happened.

If you want to do something simpler, you should be able to show that the structures that emerge are similar to current urban patterns, which is kind of the opposite of what you did (you started from a simplified urban form and showed that that decomposes into patterns that are not similar to cities). You could, for instance, start from a random or sparse initial distribution and see if distinctively recognizable urban forms emerge.

Declarations

Potential competing interests: No potential competing interests to declare.