

Review of: "Correlation and Autocorrelation of Data on Complex Networks"

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Potential competing interests: No potential competing interests to declare.

The article mainly investigates the global correlation, global autocorrelation, and local autocorrelation on non-spatial networks. It introduces a series of indicators used to characterize spatial autocorrelation and discusses their performance and differences in real networks versus configuration networks. Overall, while the topic of the article is very interesting, the research process and results lack innovation and clarity, and are not robust.

1. The article lists many indicators for measuring autocorrelation on non-spatial networks but lacks persuasive analysis and discussion.
2. Most of the article focuses on existing indicators but fails to conduct comprehensive comparisons or discuss their pros and cons.
3. While the article highlights the limitations of various indicators, it does not propose a new indicator that can be evaluated without null model experiments.
4. One interesting conclusion is the author's preference for the Lee index over the Pearson index, but the discussion related to this recommendation lacks solidity.
5. I would have liked to see a more in-depth comparative analysis of different correlation measurement indicators in real networks, particularly in comparison to classic indicators such as the assortativity coefficient in complex networks. More emphasis should be placed on comparative discussions rather than just introducing the indicators themselves. Additionally, providing clearer recommendations for indicator usage based on the discussion would be beneficial.