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

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My main concern is that treating non-spatial data as if it were spatial, by treating connections (edges) of the network as a sort of vicinity, may lead to 'spaces' that don't have (mathematically) space properties. I cannot prove it, but I fear intuitively that in such a case it is hard to prove the benefit of this approach.

Of course, there may be some benefit shown experimentally, but I don't see it in the paper (at least not clearly). There is a multitude of examples, which is fine, that are nice and make sense, but since I am not an expert on networks, I can't really evaluate their merit.

Some other minor comments:

- It is not explained what the SIR model is.

- Although cited, the three datasets should be described at least in a sentence.

- The caption of Figure 2 should also indicate the used dataset.