Review of: "Determining Affinity of Social Network using Graph Semirings"

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Potential competing interests: No potential competing interests to declare.

This article provides an example of Facebook friendship network to determine the stability or affinity of connections between different social groups by decomposing into certain components of predefined categories.

The followings are suggestions / recommendations to further improve the article:

Some keywords ie. joining network and decision making, are not mentioned in abstract. Possibly more effective to add keywords specifically for the subfield.

Caption of figure does not reflect the content in the figure. Eg. Figure 1. G. Figure has to be able to stand-alone so that readers (or busy readers) can at least catch up with the findings without reading all text.

G_1 until G_5 are not described to be related to which categories of Facebook users. Readers will need to match ourself which G_i will be for each category. Plus, please check the followings for Figure 2:

(1) G_5, the edge which join f and c is not preserved.

(2) If G_1 reflects town criers, vertex g should be included.

(3) If G_3 reflects selfies, vertex o should be included and edges joining o and g and o and k should be preserved as well.

It is also helpful to the readers if authors include an example of computation to get the Beta index.

Conclusion is also needed in the article.

To summarize, the article has potential to show a good example of application of graph theory in real life situation by considering above suggestions.