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

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Potential competing interests: No potential competing interests to declare.

The authors present an interesting algorithm to identify affinity between different communities (when a node can belong to different partitions) in a graph. I would though first suggest the authors to explain their algorithm in a generalized abstract way and not through a particular example as is done in its current version. Also, explicitly specify that the algorithm can only be applied to undirected, unweighted graphs divided in communities where a single node can belong to multiple communities or, if it is the case, explain how these constrains can be raised. A network whose partition has each node in a single group seems not suitable for the method…

In the first paragraph of the introduction a sentence confuses me. It says "Trees or simple networks (without loops) have a beta…" What do the authors mean here by "simple networks"? If those are networks without loops, then they are referring to trees and to mention it is a redundancy. I suggest a careful reading and English revision of the whole manuscript.

Finally I suggest the authors make a final session with some conclusion or overview. The manuscript in its current version comes too abruptly to an end.