

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

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**Potential competing interests:** No potential competing interests to declare.

\noindent 1) There are some sentences with grammar errors. For example, In page 1, ``The main difference is that the least value of  $A_{d(G)}$  and  $\beta_G$  are 0 and 1, respectively, while the greatest value of" should be ``The main difference is that the least values of  $A_{d(G)}$  and  $\beta_G$  are 0 and 1, respectively, while the greatest values of".  
\vspace{5mm}

\noindent 2)~ The author should specify the motivation for the research, as well as the main innovations in the introduction. \vspace{5mm}

\noindent 3)~ In page 2, line 12, ``Noteworthy, the notion of beta index and average vertex degree is used to determine the decision graph using algebraic graph operations like graph union and intersection[8]." should be ``Noteworthy, the notion of beta index and average vertex degree is used to determine the decision graph using algebraic graph operations like graph union and intersection [8]". \vspace{5mm}

\noindent 4)~ What is definition of the stability of the path? Can the author give a detailed theoretical basis? {5mm}

\noindent 5)~ There is no new theoretical innovation, perhaps the author can consider the analysis through mathematical theory, which will be an excellent paper. \vspace{5mm}