

## Computing Complement of Single Valued Neutrosophic Graph

In this section, we present in the last paper, a pseudocode of an algorithm computing the complement of single valued neutrosophic graph. This algorithm has the ability of computing the complement of fuzzy graphs, strong intuitionistic fuzzy graphs, uniform fuzzy graphs and also uniform single valued neutrosophic graphs.

The following flowchart demonstrates the algorithm to compute the complement operator is presented in Fig.3V. Numerical Example

In this section, we present an example to compute the complements of the uniform single valued neutrosophic graph. Consider a graph in Fig.4.

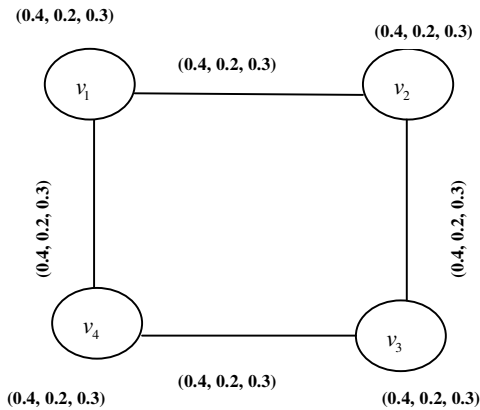


Fig. 4.A uniform single valued neutrosophic graph

Using the above pseudo code, the output result for the complement of a uniform single valued neutrosophic graph is in Fig.

5.

```

C:\Documents and Settings\said\Bureau\code of single valued ne...
Please enter no of vertex:4
Please enter (I,I,F)membership values of vertex:0.4 0.2 0.3
Please enter (I,I,F)membership values of vertex:0.4 0.2 0.3
Please enter (I,I,F)membership values of vertex:0.4 0.2 0.3
Please enter (I,I,F)membership values of vertex:0.4 0.2 0.3
Please enter the edges (x to y):1 2
Please enter (I,I,F)membership values of edge:0.4 0.2 0.3
Please enter the edges (x to y):2 3
Please enter (I,I,F)membership values of edge:0.4 0.2 0.3
Please enter the edges (x to y):3 4
Please enter (I,I,F)membership values of edge:0.4 0.2 0.3
Please enter the edges (x to y):4 1
Please enter (I,I,F)membership values of edge:0.4 0.2 0.3
Please enter the edges (x to y):4 2
Please enter (I,I,F)membership values of edge: 0.4 0.2 0.3
Please enter the edges (x to y):1 3
Please enter (I,I,F)membership values of edge:0.4 0.2 0.3
The complement of Single valued neutrosophic graphs is:
1 - 2 edge membership value= 0.000000 0.000000 0.000000
1 - 3 edge membership value= 0.000000 0.000000 0.000000
1 - 4 edge membership value= 0.000000 0.000000 0.000000
2 - 1 edge membership value= 0.000000 0.000000 0.000000
2 - 3 edge membership value= 0.000000 0.000000 0.000000
2 - 4 edge membership value= 0.000000 0.000000 0.000000
3 - 1 edge membership value= 0.000000 0.000000 0.000000
3 - 2 edge membership value= 0.000000 0.000000 0.000000
3 - 4 edge membership value= 0.000000 0.000000 0.000000

```

Fig. 5. The outputs