1. Input: (G, Nm, dm, n )
2. Initialize  or 

3. Procedure Hellinger distance (G, Nm, dm, n)

At every time slice t

if



then

Broadcast the neighbor node list for all 

do:

4. Neighborhood of a node v defined as: 

#Probability of each node in the local network will be defined by probability of any

node c under f(v) as f (v),



5. Initialize dataset [d(G)] (i.e DBLP (Co-author))

6. Take procedure Hellinger on [d(G)]

7. 

8. Case 1: Similarity found

If a node between two authors represents a common publication take

 in community i.e.  # clusters or communities

Else

Case 2: No similarity found

x and y are not closed and not be located in 

9. Get node structure information

10. Comparing each node’s information to quantify node similarity