
ALGORITHM 2 – REVISED LIKELIHOOD ASSIGNMENT AND EDGE WEIGHTING

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1: Input: Edge sets ( $E^1, \dots, E^M$ ) for M layers where  $E^\alpha$  is the edge set of target layer, Average  
Frequency Set  $F^M$  and Occurrence Set  $O^M$   
  
2: Output: Weighted adjacency matrix for layer  $\alpha$  (target layer)  
    //Calculate weights for the layers  
  
3: for  $i \in \{1, 2, \dots, M\} - \{\alpha\}$  do  
  
4:  $w_i = \text{Likelihood}(\text{Link in } L^\alpha | \text{Link in } L^i)$   
  
5: end for  
    //Weighting target layer  
  
6: for edge  $e \in E^\alpha$  do  
  
7:  $w_e = \text{rate} + \sum_{i=1}^M \& i \neq \alpha w_i \times \log(f_i) \times \text{linkExist}(e) \times O_i$   
  
8: end for
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