TextRank

PageRank

-
-
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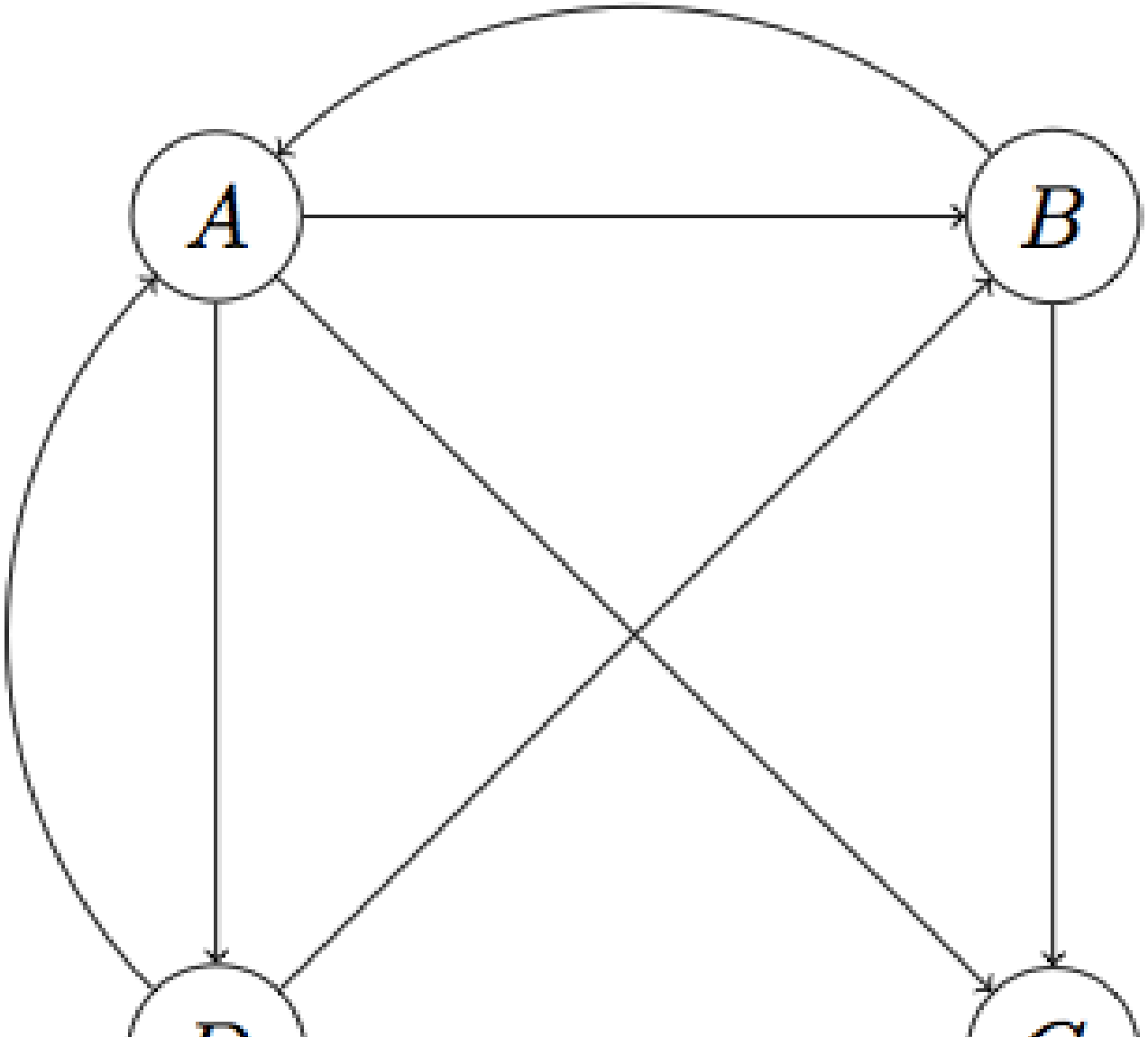
PageRank -

A B C D B A C C D D A B



PageRank -

PageRank -

$$S(V_i) = (1-d) + d * \sum_{j \in In(V_i)} \frac{1}{|Out(V_j)|} S(V_j)$$

Figure 2:

PageRank -

A

B,C,D

B,D

0.25

B

A,C

A,D

0.25

C

PageRank -

```
d = 0.85
S(A) = 0.15 + 0.85 * ( S(B)/2 + S(D)/2 )
     = 0.15 + 0.85 * ( 0.25/2 + 0.25/2 )
S(B) = 0.15 + 0.85 * ( S(A)/3 + S(D)/2 )
     = 0.15 + 0.85 * ( 0.25/3 + 0.25/2 )
S(C) = 0.15 + 0.85 * ( S(A)/3 + S(B)/2 )
     = 0.15 + 0.85 * ( 0.25/3 + 0.25/2 )
```

PageRank - C

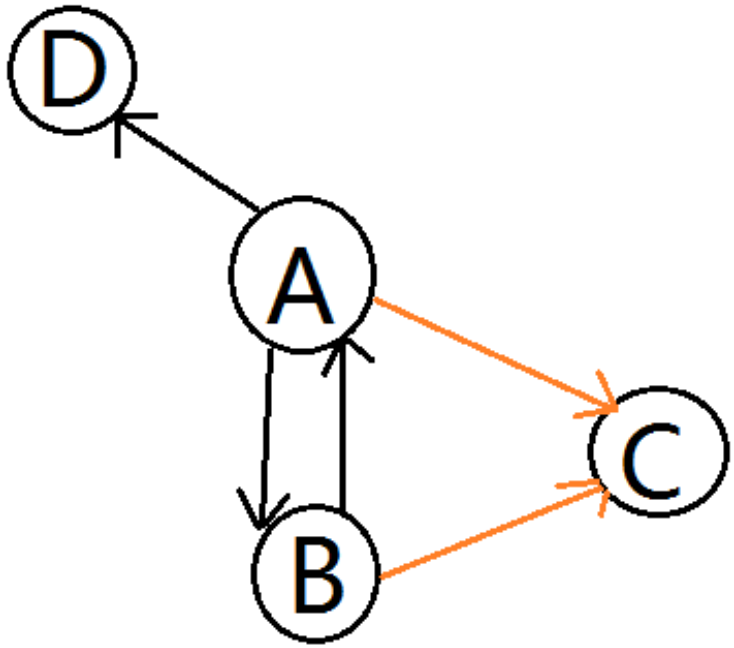


Figure 3:

PageRank -

-
-

TextRank

TextRank PageRank

TextRank PageRank

1.
2.
3.
4.

TextRank

-
-
- pagerank
- k

1. Tokenize
2.
3. pagerank k

TextRank -

TF-IDF

TextRank -

$$Similarity(S_i, S_j) = \frac{|\{w_k | w_k \in S_i \& w_k \in S_j\}|}{log(|S_i|) + log(|S_j|)}$$

Figure 4:

TextRank -

PageRank TextRank

$$WS(V_i) = (1-d) + d * \sum_{V_j \in In(V_i)} \frac{w_{ji}}{\sum_{V_k \in Out(V_j)} w_{jk}} WS(V_j)$$

Figure 5:

TextRank -

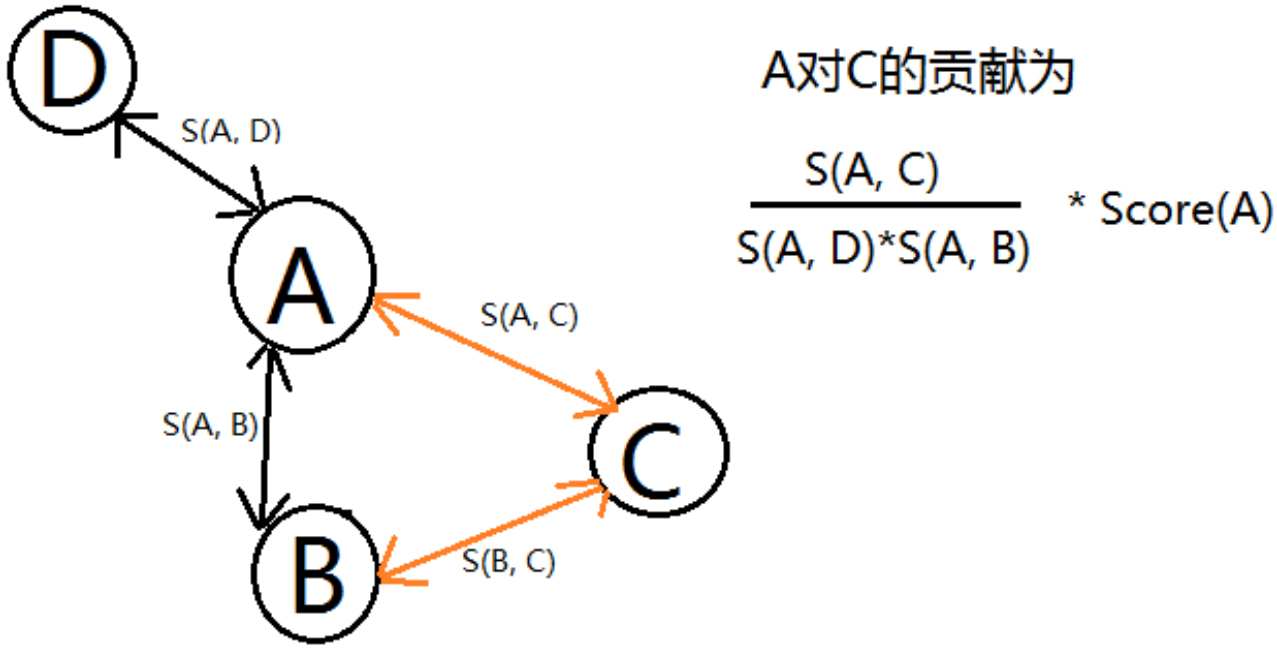


Figure 6: