An Improvement of Weighted PageRank to Handle the Zero Link Similarity

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***Abstract*—The well-known PageRank algorithm makes use of the link structure to calculate a quality rank for pages. It basically delivers**

***Index Terms*—PageRank**

I. Introduction

Pendahuluan [1], [2]

II. Related Works

A. PageRank Algorithm

sesuatu

$$r_j = \Sigma_{i \underset{out}{\rightarrow} j} \frac{r_i}{L_{out}(i)} \quad (1)$$

$$\Sigma r_i = 1 \quad (2)$$

III. Proposed Algorithm

IV. Experiment

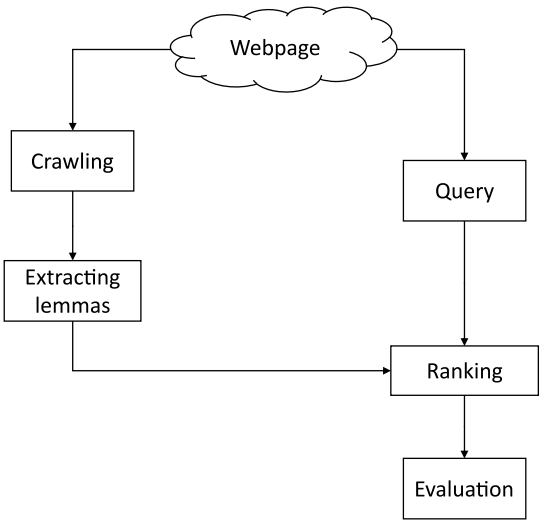

Fig. 1. Experiment System Architecture

V. Conclusion

1) WeightedPageRank based ion the number of in-links of neighboring pages:

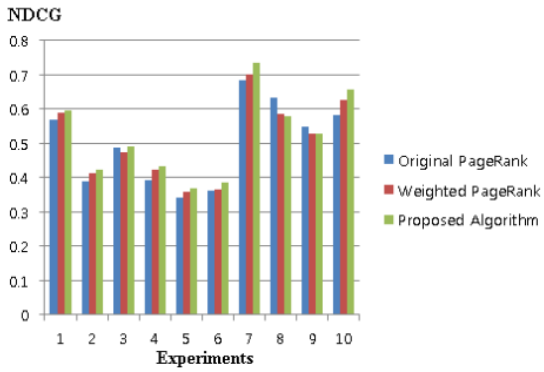

Fig. 2. Comparison of the original PageRank and the proposed Algorithm

References

[1] S. Brin and L. Page, "The anatomy of a large-scale hypertextual web search engine," *Computer networks and ISDN systems*, vol. 30, no. 1-7, pp. 107–117, 1998.

[2] W. Xing and A. Ghorbani, "Weighted pagerank algorithm," in *Proceedings. Second Annual Conference on Communication Networks and Services Research, 2004.* IEEE, 2004, pp. 305–314.