A Framework for Career-Education Hybrid Recommender System using a Selective Path Delta-SimRank Algorithm

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Abstract

Selecting proper educational courses is a major problem in the student’s life. A key factor in selecting courses is asking for the experts’ opinion in the real life business. However, contacting with a real expert in a field may be difficult for many students. In this research, we suggest a general framework for a social network to connect students and experts. The framework depends on a variation of Delta-SimRank algorithm. The suggested variation is called Selective Path Delta-SimRank (SPDSR). Both the SPDSR and the original Delta-SimRank apply MapReduce technique for load balancing in a network of device. The suggested SPDSR tries to enhance the performance of Delta-SimRank. The Experiments results had shown that SPDSR had reduced the processing time in 30-70% of test cases to enhance performance by 18% in average.

References

- S. G. F. De Moya-anegón, Z. Chinchilla-rodriíguez, E. Corera-álvarez, F. J.


Index Terms

- Computer Science
- Information Sciences

Keywords

- MapReduce
- Scientogram
- SimRank
- Recommender System
- Education and Self-Learning
- Collaboration.