Plan

[Done, 9/12] Topic selection

[Done, 10/10] Read through the article and learn related knowledge points (concepts, related algorithms, and implementation)

[Done, 11/5] Complete the first draft

[In progress, 11/10] Experiment+optimization

[11/17] Complete report

[11/28] Presentation and Final report

Structure of the paper and Progress

1) Introduction

Usage field

Introduces the traditional method(the Inclusion Dependencies,INDs) and the problems encountered(based on clean data), and proposes a new method(similarity, sINDs) to solve the problem.

2) Summary of the Paper

3 section:

2.1

Introduction to the concepts of INDs and sINDs

2.2

This section describes how to find sINDs by using the Sawfish algorithm. Focus on the implementation process of the three algorithms mentioned in the paper.

2 algorithm for validate the sIND candidates:

Algorithm 1 Index Probing in ED mode

Algorithm 2 Index Probing in JAC mode

an algorithm for sIND Discovery:

Algorithm 3 Candidate Validation

2.3

Explain the experiments and comparative methods mentioned in the article

3) Analysis and Critique

Comment on the article, briefly describing the contribution and shortcomings of the article

4) Conclusion

Brief description
Suggestions for further research directions

Achievement

The first draft of the conceptual section in the report has been completed

Problems Encountered

Next Steps

Replicate the experiment using the test data in the article and compare the test results
Final report