

Clustering for Graph Partitioning

Andrea Smith

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About the Author

The author has earned her Bachelor's of Science degree in Computer Science from Missouri University of Science and Technology. She is working towards her doctorate degree in Computer Science, with a focus on graph data mining, from the same university, anticipating completing 2022.

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1 Executive Summary

This project aims to explore the potential of clustering algorithms for aiding in the partitioning of large graphs for frequent subgraph mining. Partitioning is important as many graphs of interest cannot be held in the memory of a single machine, and so must be spread across many machines in order to be processed. Partitioning risks losing data that spans across multiple partitions, requiring an intelligent partitioning process in order to minimize. This project explores k-means clustering, distance-k clustering, and multilevel kernel clustering algorithms, as they apply to data mining. The clusters produced by the algorithms are evaluated for quality based on cluster density and the maximal shortest path within the cluster.

2 Introduction

Stuff to say $[1, 2]$.

3 Project Specifications

4 Detailed Design

5 Experimental Results

6 Appendix A

References

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