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**PONDICHERRY – VILLUPURAM – CUDDALORE-CHENNAI**

## **NEAREST KEYWORD SET SEARCH IN MULTI-DIMENSIONAL DATASETS**

### **ABSTRACT**

Keyword-based search in text-rich multi-dimensional datasets facilitates many novel applications and tools. In this paper, we consider objects that are tagged with keywords and are embedded in a vector space. For these datasets, we study queries that ask for the tightest groups of points satisfying a given set of keywords. We propose a novel method called ProMiSH (Projection and Multi Scale Hashing) that uses random projection and hash-based index structures, and achieves high scalability and speedup. We present an exact and an approximate version of the algorithm. Our experimental results on real and synthetic datasets show that ProMiSH has up to 60 times of speedup over state-of-the-art tree-based techniques.

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## **EXISTING SYSTEM:**

In this paper, we study nearest keyword set (referred to as NKS) queries on text-rich multi-dimensional datasets. An NKS query is a set of user-provided keywords, and the result of the query may include k sets of data points each of which contains all the query keywords and forms one of the top-k tightest clusters in the multi-dimensional space. NKS query over a set of two-dimensional data points. In tree-based indexes suggest possible solutions to NKS queries on multidimensional datasets, the performance of these algorithms deteriorates sharply with the increase of size or dimensionality in datasets.

## **DISADVANTAGE OF EXISTING SYSTEM**

- NKS queries are useful for graph pattern search, where labeled graphs are embedded in a high dimensional space.
- Nearest neighbor queries usually require coordinate information for queries, which makes it difficult to develop an efficient method to solve NKS queries by existing techniques for nearest neighbor search.

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### **PROPOSED SYSTEM:**

In this paper, we propose ProMiSH (short for Projection and Multi-Scale Hashing) to enable fast processing for NKS queries. In particular, we develop an exact ProMiSH (referred to as ProMiSH-E) that always retrieves the optimal top-k results, and an approximate ProMiSH (referred to as ProMiSH-A) that is more efficient in terms of time and space, and is able to obtain near-optimal results in practice. ProMiSH-E uses a set of hash tables and inverted indexes to perform a localized search. Based on this index, we developed ProMiSH-E that finds an optimal subset of points and ProMiSH-A which searches near-optimal results with better efficiency. ProMiSH is faster than state-of-the-art tree-based techniques, with multiple orders of magnitude performance improvement.

### **ADVANTAGE OF PROPOSED SYSTEM:**

- The performance of ProMiSH on both real and synthetic datasets.
- We develop efficient search algorithms that work with the multi-scale indexes for fast query processing.

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## SYSTEM SPECIFICATION

### HARDWARE REQUIREMENTS

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

### SOFTWARE REQUIREMENTS

- Operating System : Windows 8
- Front End : Java
- Database : Mysql

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