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CRAWLING HIDDEN OBJECTS WITH KNN QUERIES

ABSTRACT

Many websites offering Location Based Services (LBS) provide a k NN search interface that returns the top-k nearest-neighbor objects (e.g., nearest restaurants) for a given query location. This paper addresses the problem of crawling all objects efficiently from an LBS website, through the public k NN web search interface it provides. Specifically, we develop crawling algorithm for 2D and higher-dimensional spaces, respectively, and demonstrate through theoretical analysis that the overhead of our algorithms can be bounded by a function of the number of dimensions and the number of crawled objects, regardless of the underlying distributions of the objects. We also extend the algorithms to leverage scenarios where certain auxiliary information about the underlying data distribution, e.g., the population density of an area which is often positively correlated with the density of LBS objects, is available. Extensive experiments on real-world datasets demonstrate the superiority of our algorithms over the state-of-the-art competitors in the literature.

EXISTING SYSTEM:

It is important to note that the key technical challenge for crawling through a kNN interface is to minimize the number of queries issued to the LBS service. The

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requirement is caused by limitations imposed by most LBS services on the number of queries allowed from an IP address or a user account (in case of an API service such as Google Maps) for a given time period (e.g., one day). For example, Twitter limits the search rate at 180 queries per 15 minute. Of course, no algorithm can possibly accomplish the task without issuing at least n/k queries, where n is output size (i.e., the number of crawled objects), because each query returns at most k of the n objects. As such, we are bound to have an output-sensitive algorithm, which nevertheless should have a query cost as close to n/k as possible.

DISADVANTAGES OF EXISTING SYSTEM :

- we study the problem of crawling the LBS through the restricted k NN search interface
- The crawling of an LBS database by issuing a small number of queries.
- crawling through a k NN interface is to minimize the number of queries issued to the LBS service.

PROPOSED SYSTEM:

We start with addressing the k NN crawling problem in 1-D spaces, and propose a 1-D crawling algorithm with upper bound of the query cost being $O(n/k)$, where n is the number of output objects, and k is the top- k restriction. We then use the 1D algorithm

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as a building block for k NN crawling over 2-D spaces, and present theoretical analysis which shows that the query cost of the algorithm depends only on the number of output objects n but not the data distribution in the spatial space. We extend the k NN crawling problem to the general case of m -D spaces - which is the first such solution in the literature. Our contributions also include a comprehensive set of experiments on both synthetic and real-world data sets. The results demonstrate the superiority of our algorithms over the existing solutions.

ADVANTAGE OF PROPOSED SYSTEM:

- For 2-D space, we take external knowledge into consideration to improve the crawling performance.
- The experimental results show the effectiveness of our proposed algorithms.

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Sony.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS

- Operating system : Windows 7.
- Coding Language : ASP.Net with C#
- Data Base : SQL Server 2005.

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