CRAWLING HIDDEN OBJECTS WITH kNN QUERIES

A project report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

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CERTIFICATE

This is to certify that the project entitled "CRAWLING HIDDDEN OBJECTS WITH KNN QUERIES " in partial fulfillment for the of degree of Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an bonafied work carried out by CH.ALEKHYA (15811A0515), A.YAMUNA (15811A0503), B.SRIKANTH (15811A0511), B.HINESH (15811A0509) under the guidance and supervision during 2018-2019.

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ABSTRACT

Many websites offering Location Based Services (LBS) provide a kNN search interface that returns the top-k nearest neighbor objects for a given query location. This paper addresses the problem of crawling all objects efficiently from an LBS website, through the public kNN web search interface it provides. Specifically, we develop crawling algorithm for 2D and higher-dimensional spaces 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 can 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.