

Yu Hua, Bin Xiao, Bharadwaj Veeravalli, Dan Feng. "Locality-Sensitive Bloom Filter for Approximate Membership Query", IEEE Transactions on Computers (TC), Vol. 61, No. 6, June 2012, pages: 817-830.

About Files:

`./source`: include all source files;

`mybloom.c`: the main function of approximate queries;

`neighbor.c`: the main of exact-matching queries;

`./dataset`: include the test files

`./exact`: support exact-matching queries and determine if there exist the points whose distance with the query point is smaller than R via linear searching;

`./ls-bf`: support approximate query and determine if there exist the points whose distance with the query point is smaller than R via LSBF;

How to use:

`./exact #nPoints #nQueries R datasetFile querysetFile`

For example:

`./exact 200 200 2 dataset/200_data dataset/200_query`

The results are 28, 96, 98. These three points meet the needs of query requests.

`./ls-bf`

In the similar way