Download: Please download ALL files including data files, code files, change_s files and test files.

Decompression: After decompression, there are:

- (i) Six data files: SourceFile0.txt (TAO), SourceFile1.txt (Trip), SourceFile2.txt (Stock), SourceFile3.txt (HPC), SourceFile4.txt (GAS), and SourceFile5.txt (Normal), corresponding to six datasets used in our experimental study.
- (ii) Six c++ projects: each c++ project corresponds to an algorithm in the experiment.
- (iii) Test files (data file) and change_s files (stream speed file).

Build: c++ projects can be complied by VS 2019.

Run: exe file, data file, change_s file and test file should be contained in the same file directory. The test file name is "test.txt". Note, one test.txt corresponds to one SourceFile.txt.

Data format (3-dimension data in the example, space-delimited): 0.04 84.87 23.436

Experiment to test KNode:

Test format (7 parameters, space-delimited): 3 1.9 50 32 0.05 10000 500

- 1^{st} parameter refers to dimension, e.g., d=3 in above example
- 2^{nd} parameter refers to query radius r, e.g., r = 1.9 in above example
- 3^{rd} parameter refers to neighbor count threshold k, e.g., k=50 in above example
- 4th parameter refers to the index split threshold
- 5th parameter refers to ρ , e.g., ρ =0.05 in above example
- 6th parameter refers to the window size, which is measured by the number of objects in each query window
- 7th parameter refers to the speed of the stream, represented by the number of objects entering/exiting the window per slide

Experiment to test CPOD/MMCOD/NETS/LEAP/PTAOD:

Test format (6 parameters, space-delimited): 3 1.9 50 10000 500 1

- 1st parameter refers to the dimension, e.g., d=3 in above example
- 2^{nd} parameter refers to the query radius r, e.g., r = 1.9 in above example
- 3^{rd} parameter refers to the neighbor count threshold k, e.g., k=50 in above example
- 4th parameter refers to the window size, which is measured by the number of objects in each query window.
- 5th parameter refers to the speed of the stream, represented by the number of objects entering/expired from the window per slide
- 6th parameter refers to code flags, which could be ignored.

Note that when evaluating the impact of stream speed, files "change_s.txt" and "test.txt" should be contained in the same file directory.