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\*Some of the algorithms implemented in this package are under US patent application. Please use it only for academic purposes.

\* This document was written based on README file which has been written by Chi Wang (chiwang1@illinois.edu).

README – code

This folder contains implementation of different algorithms; here is a list of files:

|  |  |
| --- | --- |
| **File Name** | **Description** |
| Degree.h/cpp | Highest degree |
| Weighteddegree.h/cpp | Weighted degree |
| pagerank.h/cpp | Pagerank |
| DegreeDiscount\_IC.h/cpp | Degree Discount IC |
| Graph.h/cpp | Reading the graph data from standard input |
| Greedy.h/cpp | Greedy algorithm, accelerated by CELF |
| Independ\_Cascade.h/cpp | Implementation of IC model. |
| Limit.h | Some parameters |
| Main.cpp | The main program, different algorithms are selected by switches.  (“windows.h” is included in this program) |
| Random.h/cpp | Picking nodes randomly |
| Greedy\_topk.h/cpp | Hybrid algorithm framework of discount and anything (greedy/spm) |
| general\_cascade.h/cpp | Implementation of GC model. |
| SPM\_gc.h/cpp | Implementatin of SPM for GC, optimized according to submodularity |
| SP1M\_gc.h/cpp | Implementatin of SP1M for GC, optimized according to submodularity |
| pmia.h/cpp | Implementation of PMIA |
| mia.h/cpp | Implementation of MIA |
| ir.h/cpp | Implementation of IR |
| Irie.h/cpp | Implementation of IRIE |