



Project 2

Task-1: Near-maximum Weighted Independent Set

Maximum weighted independent set: Given a graph G, where each vertex is assigned a positive weight. The task is to find an independent set with the largest weight.

Computing the maximum weighted independent set is NP-hard. Thus the task is fast finding a weighted independent set as large as possible.

Task-2: Subgraph Search over Dynamic Graphs

Given a graph G_i at time i and the matches of a query graph q (denoted by M(q)), the task is finding the matches of q over G_{i+1}, where G_{i+1},$=G_i+\Delta G$ and ΔG is a set of update operations including vertex/edge additions/deletions.

评价指标

两个任务中任选一个

- Presentation (13 minutes)
  - 10 minutes
  - 3 minutes Q/A

  - 讲清楚思路、框架
  - 所采用的技术
  - 创新点

提示

- 最新的相关工作
- 设计自己的改进方法
- PPT提交时间：2021.12.2晚23:59
- 展示时间：2020.12.2