

Point Location

Kirkpatrick Structure

- The more The Better

Junhui DENG

deng@tsinghua.edu.cn

Independent Vertices: The More The Better

- ❖ To ensure that the hierarchical depth is within $O(\log n)$,
each IS should be **large enough**
- ❖ A **maximal independent set** is also
a **maximal clique** in the complementary graph
- ❖ Both problems are NP-hard
- ❖ As we will see, here we need an IS with a size of
at least **a constant fraction** of its superset

