

Advanced Balanced Search Tree

Multi-Level Search Tree

Worst Case

邓俊辉

deng@tsinghua.edu.cn

❖ Using kd-trees,

we need $\mathcal{O}(1 + \sqrt{n})$ time

But here ...

❖ The x-query returns

(almost) all points whereas

the y-query rejects

(almost) all

❖ We spent $\Omega(n)$ time before getting $r = \emptyset$ points

