

Windowing Query

Interval Tree: Construction

- Partitioning

Junhui DENG

deng@tsinghua.edu.cn

❖ All intervals can be then categorized into 3 subsets //intervals lying entirely left to x_{mid} $S_{left} = \{ S_i \mid x_{i'} < x_{mid} \} |$ $S_{right} = \{ S_i \mid x_{mid} < x_i \} | //intervals lying entirely | right | to <math>x_{mid}$ //intervals that contain x_{mid} $|S_{mid} = \{ S_i \mid x_i \leq x_{mid} \leq x_i, \}|$ $X_{mid}(V)$ Smid Sright S_{left} (8) median Computational Geometry, Tsinghua University

❖ S_{left/right} will be recursively partitioned until they are empty (leaves) $x_{mid}(v)$ Smid S_{left} Sright 8 median Computational Geometry, Tsinghua University