Voronoi Diagram

Incremental Construction

- Royal Garden

04-K-01

Junhui DENG

水木清华，为一时之繁囿胜地

deng@tsinghua.edu.cn

Idea

- For any given set $S = \{ p_1, \ldots, p_n \}$

  let $S_k = \{ p_1, \ldots, p_k \}$ for $k = 1, 2, \ldots, n$

- This algorithm computes a series of VDs:

  $VD(S_1), VD(S_2), VD(S_3), \ldots, VD(S_n) = VD(S)$

$VD(S_{k-1}) \rightarrow VD(S_k)$