

Voronoi Diagram

Plane Sweep

- Circle Event: How

Junhui DENG

deng@tsinghua.edu.cn

1. `delete` the `arc(j)` from the BL
(it's still possible for `j` to contribute other arcs)
2. `create` a Voronoi `vertex` at `x`
3. `attach` the `edge(i, j)` and `edge(j, k)` to the new vertex
4. `create` a new Voronoi `edge(i, k)`
(which will grow `downwards` from `x`)
5. `delete` all `circle events` involving `j`, and
6. `detect` the potential `circle events` that arose from (≤ 2) triples involving `i` and `k`

