

Voronoi Diagram

Plane Sweep

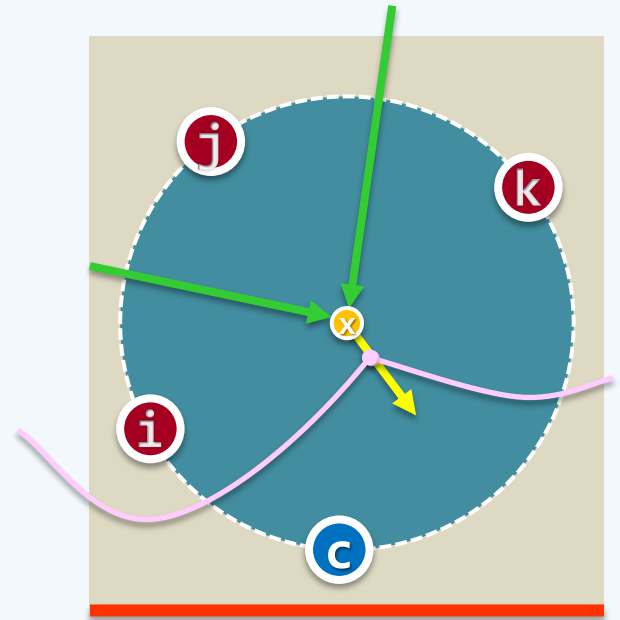
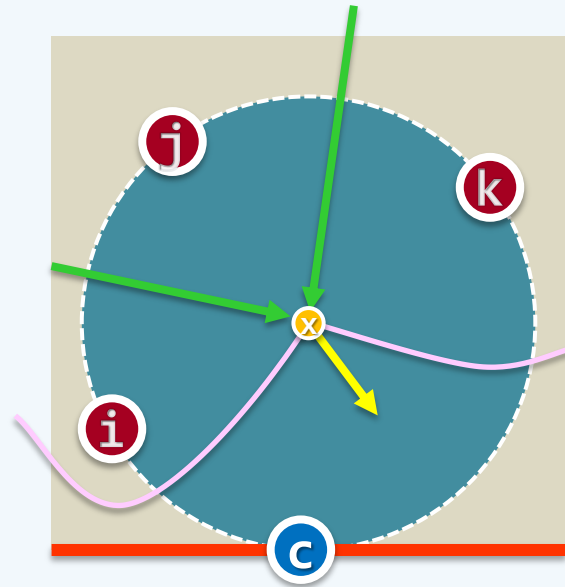
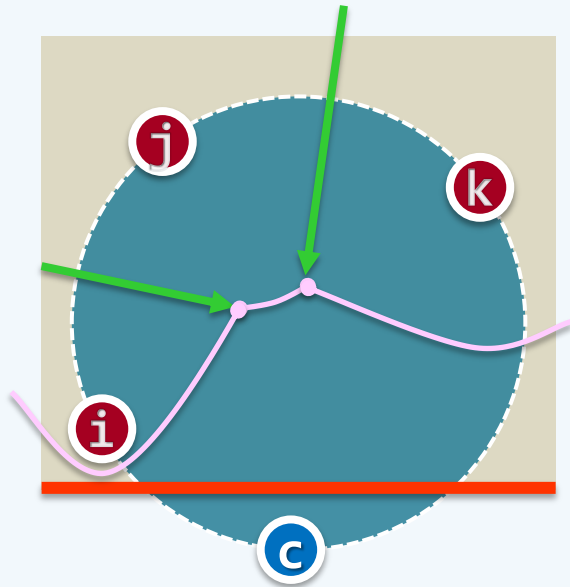
- Circle Event: What, When & Where

Junhui DENG

deng@tsinghua.edu.cn

What

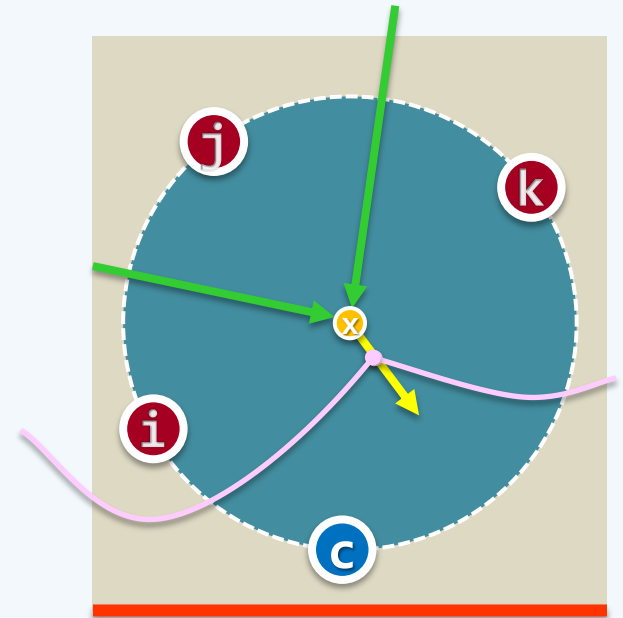
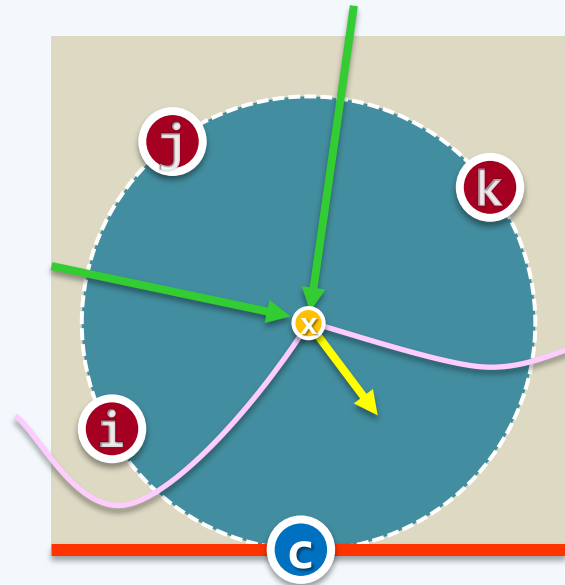
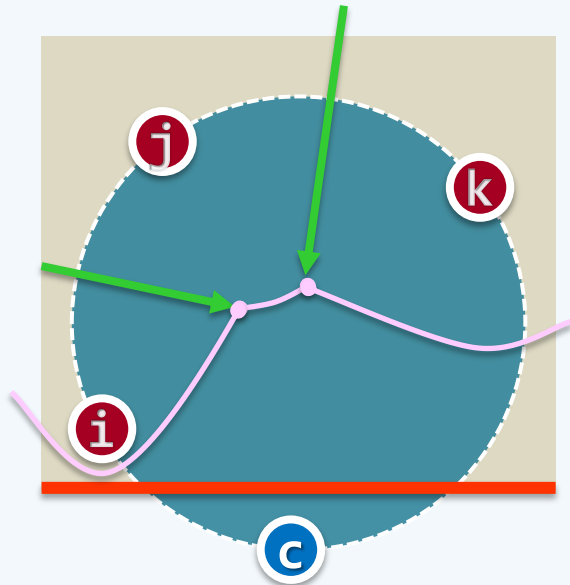
- ❖ Generated dynamically as the algorithm runs
- ❖ The principle behind is that ...



- ❖ A circle event is generated **only if**
there are 3 arcs(sites) becoming **consecutive** along the BL

When & Where

- ❖ Consider any consecutive $\text{arc}(i)$, $\text{arc}(j)$ and $\text{arc}(k)$ from left to right
- ❖ A circle event will be generated at ...



- ❖ ... the **lowest** point (c) of their **circumcircle**
if it does lie below the SL