Geometric Intersection

BO Algorithm: Implementation
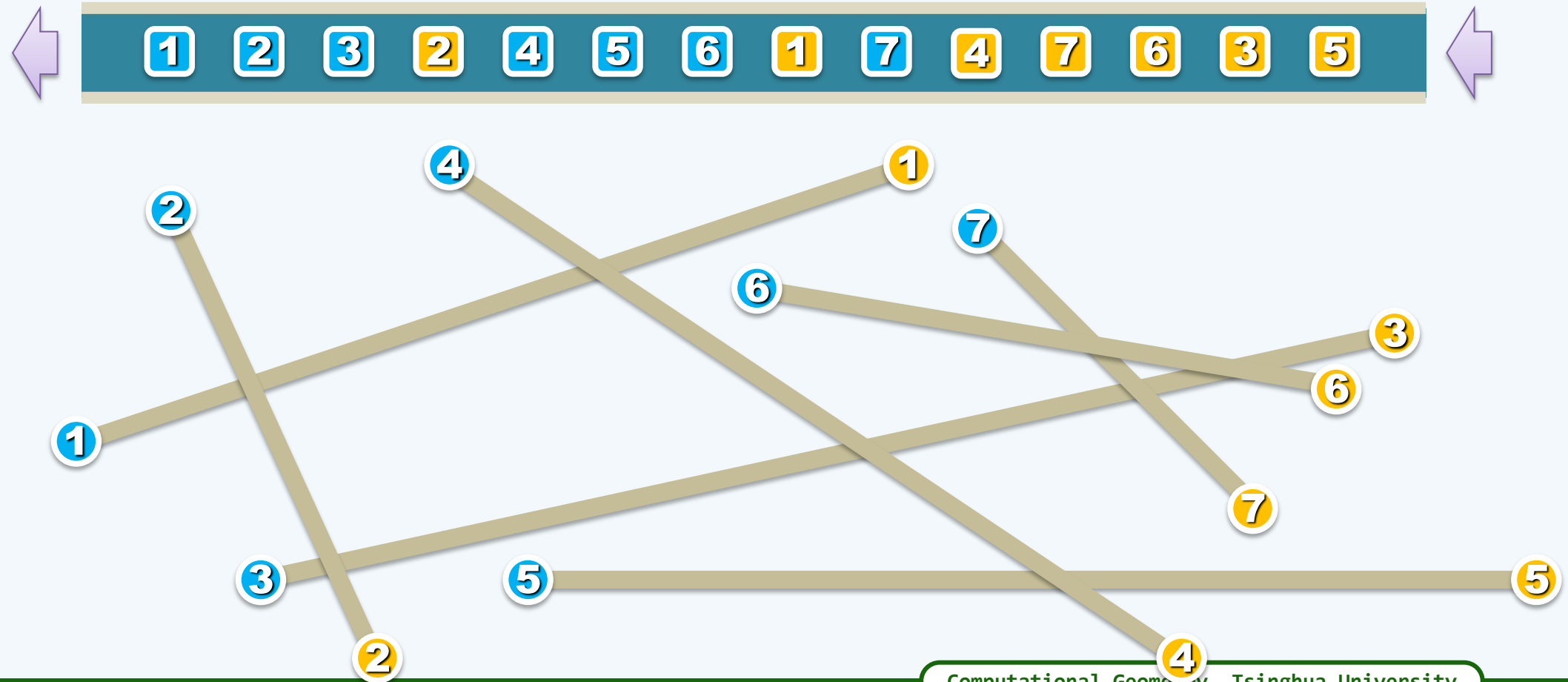
- Events & Operations

Junhui DENG

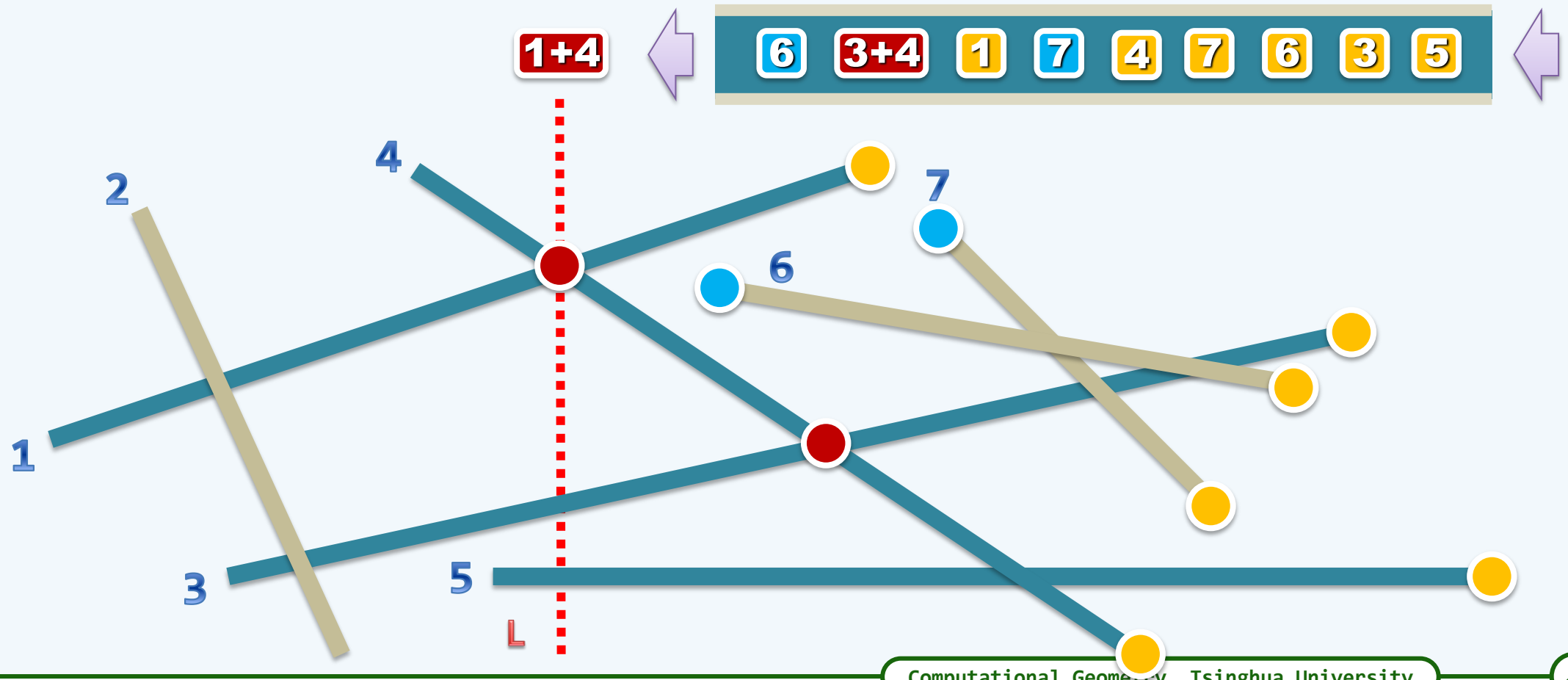deng@tsinghua.edu.cn

❖ Before the sweeping starts, all (left/right) endpoint events can be known in advance and be stored in $\mathcal{E}$ with their x-coordinates

Intersection Events

❖ Each detected intersection generates an intersection event dynamically

Operations

❖ $\boxed{\mathcal{E}\texttt{.delMin()}}$: access the minimal (leftmost) element in $\mathcal{E}$ and delete it

$\boxed{\mathcal{E}\texttt{.insert(x)}}$: insert an event at x coordinate into $\mathcal{E}$