

Point Location

Persistence

- Ephemeral Structure

Junhui DENG

deng@tsinghua.edu.cn

Ephemerality

❖ Typical data structures allow 2 types of operations:

- **query** : merely **retrieves** information, whereas
- **update** : **changes** the information represented

❖ **SOV** (Sequence of Versions)

consists of all versions of

a data structure during its lifetime,

one for each update done

Ephemeral Data Structure

❖ Both types of operations

are restricted to

its current/last version

❖ For an ephemeral structure

- the SOV leading to its current version is lost; and hence
- its history graph consists of a single vertex