## Algorithm 1: selectCluster

```
1 Function selectCluster(VT_i, d_i, da\_access, ivt, v\_free, G, K, phMatrix, n\_size, n\_prim)
  2
               for k = 1 to n_{prim} do
                       V_{\mathrm{cand}} = \emptyset
  3
                       V_{\mathrm{cand}} \leftarrow V_{\mathrm{free}} \cap K_k^{(pos)}
  4
                       if V_{cand} = \emptyset then
  5
                         6
                         else
  7
                           \begin{array}{|c|c|} \hline \eta_k = |V_{\mathrm{cand}}| \cdot \sum_{v_j \in V_{\mathrm{cand}}} |v_d - v_j|^{-1} \\ \hline \tau_k = \frac{1}{|V_{cand}|} \cdot \sum_{v_j \in V_{\mathrm{cand}}} \tau_{v_d v_j}^{(d_i)(VT_i)} \end{array} 
  8
  9
              \begin{array}{l} \eta_{sum} \leftarrow \sum_{k=1}^{n_{prim}} \eta_k^{\alpha} \\ \tau_{sum} \leftarrow \sum_{k=1}^{n_{prim}} \tau_k^{\beta} \\ \text{if } \eta_{sum} = 0 \text{ then} \end{array}
10
11
12
                      for k = n_{prim} + 1 to |K^{(pos)}| do
13
                              V_{cand} = V_{free} \cap K_k^{(pos)}
if V_{cand} \neq \emptyset then
14
15
                                      return k
16
               \mathbf{for}\ k=1\ to\ n_{prim}\ \mathbf{do}
17
                  p(K_k^{(pos)}) = \frac{\eta_k^{\alpha} \cdot \tau_k^{\beta}}{\eta_{sum} \cdot \tau_{sum}}
18
               p_{\text{sum}} = \sum_{k \in n_{prim}} p(K_k^{(pos)})
19
               return rouletteWheel(p(K), p_{sum});
\mathbf{20}
```