```
\begin{array}{l} V_{min}, V_{max} \in \\ R^3 \\ e_l \in \\ R^+ \\ V = \\ V = \\ (z, y, z) \in \\ Z^{3+} \\ V_{min} = \\ V_{min} + \\ v^* \\ v^* = \\ V_{min} + \\ (v+1) * \\ e_l = \\ (v_{min} + \\ v_{max}) * \\ 0.5 \\ V_p = \\ (p-V_{min}) / / e_l \\ / / \\ V_{property} : \\ Z^{3+}_{m*n} \rightarrow \\ v_{V_{min}} = \\ (0, 0, 0) \\ 0.1 \\ 1 \end{array}
                                                                                                                                              \begin{array}{l} (0,0,0) \\ (0,1,1) \\ v_{V_{max}} = \\ (V_{max} - \\ V_{min})//e_l \\ V = \\ v_i \}_{i=1}^n, n \in \\ [1,\prod_{v \in V_{max}}] \\ V_v \\ e_l \\ M_v = \\ \{m_i\}_{i=1}^{|\mathcal{V}|}, m_i < \\ m_{i+1}, m_i \in \\ Z + \\ Tadius : \end{array} 
                                                                                                                                   \begin{array}{l} r \\ radius : \\ Z^{3+}, R \mapsto \\ \mathcal{K}_f : \\ \mathcal{K}_w \mapsto \\ \mathcal{R}^{m*n} \\ \mathcal{K}_w & \mapsto \\ \mathcal{K}_v \in \\ \mathcal{K}_v \in \\ \mathcal{K}_v = \\ \{v_{\mathcal{K}} + \\ (v - o_{\mathcal{K}}) | v_{\mathcal{K}} \in \\ \mathcal{K}_v = \\ \{weight(v) * \\ \mathcal{V}_{property}(v) | v \in \\ \mathcal{K}_v \cap \\ \mathcal{V}_v \cap \\ \mathcal{V}_v \cap \\ \mathcal{V}_v \in \\ \mathcal{K}_v \in \\ \mathcal{K}_
                                                                                                                                   \begin{cases} v \in \\ \mathcal{V}_{\mathcal{K}_{stick}} | \mathcal{V}_{obstructed}(v) = \\ 0 \end{cases} 
 \begin{cases} \mathcal{V}_{dilated} \\ \mathcal{V}_{dilated} \\ \mathcal{V}_{c} \\ \mathcal{C}_{v} = \\ (V, E) \\ \mathcal{K} \end{cases}
```

```
r \in \mathbb{R}
R
HDF_{max} = \{ |
dist() \ge \max\{dist(v_r \mid v_r \in v_r
 \begin{array}{l} radius(,\tau))\}\} \\ rHDF_{max} \\ h \\ views \\ = \\ \{v_c + \\ (0,h,0) \mid \\ v \in Ws \\ visibility : \\ R, \mapsto \\ Z^{m \times 3}, m \in \\ R, n \geq \\ m \\ visibility \\ visibility \\ visibility \\ visibility \\ visibility(x) \mid \\ x \in \\ views \\ J(A,B) = \\ \frac{|A \cap B|}{|A \cup B|} \\ S^{n \times n} \in \\ [0,1] \\ J(A,B) = \\ J(B,A) \\ J(A,A) = \\ 1 \\ S^{n \times n} \in \\ [1.2,2.5] \\ visibility \\ visibility \\ views \\ C_{visibility} = \\ \{c_0,c_1,\ldots c_{n-1},c_n\}, n = \\ |views|, c \in \\ n \geq \\ C_{visibility} \\ visibility \\ vis
                                                     \mathop{visibility_{views}}\limits_{\circ}
                          \begin{array}{l} visibility_{view} \\ \mathbf{C}_{visibility} \\ \mathbf{\mathcal{V}}_{c} \\ \mathbf{\mathcal{V}}_{c} \\ \mathbf{\mathcal{V}}_{c} \\ visibility \\ vom() = \\ c, c \in \\ \mathbf{C}_{visibility}, \in \\ \underline{\mathbf{C}}_{visibility}, \in \\ \underline{\mathbf{C}}_{visibility} \\ \mathbf{\mathcal{V}}, E) \end{array}
```