
Algorithm 7 NamingCommunity($R, Center, p_1, p_2$)

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1:  $\{R$  is the attribute set,  $Center$  is the community set,  
    $p_1, p_2$  are two threshold values}  
2: if  $|Center| > 1$  then  
3:   for each attribute  $a \in R$  do  
4:     if  $a$  is discrete then  
5:        $C_a \leftarrow$  the most frequent value of  $a$  among the  
         central entities  
6:     else  
7:        $C_a \leftarrow$  average value of  $a$  over the central entities  
8:     end if  
9:   end for  
10: else  
11:   for each attribute  $a \in R$  do  
12:      $C_a \leftarrow$  value of  $a$   
13:   end for  
14: end if  
15: for each attribute  $a \in R$  do  
16:   if  $a$  is discrete and  $F_{C_a} > p_1$  then  
17:      $a$  is selected as the key attribute  
18:     return  $C_a$   
19:   else  
20:     if  $\frac{C_a - A_a}{A_a} < p_2$  then  
21:        $a$  is selected as the key attribute  
22:       return  $C_a$   
23:     end if  
24:   end if  
25: end for
```
