
Algorithm 1 FilterOutKernels(C, f)

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1:  $K \leftarrow \emptyset$ 
2: sort  $C$  by the descending order of  $|C_i|, C_i \in C$ 
3:  $\{core$  stores the centers of the filtered out kernels $\}$ 
4:  $core \leftarrow \emptyset$ 
5: for  $C_i \in C$  do
6:    $contained \leftarrow C_j, j \neq i, C_j < C_i$ 
7:    $independent \leftarrow k, k \neq i, C_k \not\prec C_i$ 
8:   delete  $C_i$  from  $C$ 
9:    $C \leftarrow C - contained$ 
10:  for  $s \in C_i$  do
11:    if  $s \cap (independent \cup core) \neq \emptyset$  then
12:      delete  $s$  from  $C_i$ 
13:    end if
14:  end for
15:  if  $C_i \neq \emptyset$  then
16:     $K \leftarrow C_i$ 
17:  end if
18:   $core \leftarrow v_i$ 
19: end for
20: return  $K$ 
```
