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**Algorithm 1 TemporalCleansing**(Raw reading table  $RRT$ , Threshold  $\tau$ )

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1:  $ATT \leftarrow \emptyset$ ;  $trs \leftarrow \emptyset$ 
2: for each  $rr \in RRT$  do
3:    $flag \leftarrow \text{false}$ 
4:    $trs \leftarrow \{tr \in ATT \mid tr.objectID = rr.objectID \wedge$   

    $rr.deviceID = tr.deviceID\}$ 
5:   if ( $|trs| > 0$ ) then
6:     for each tracking record  $tr \in trs$  do
7:       if ( $rr.t - tr.t_e \leq \tau$ ) then
8:          $tr.t_e \leftarrow rr.t$ ;
9:          $flag \leftarrow \text{true}$ ;
10:        break
11:   if  $flag = \text{false}$  then
12:     insert ( $rr.deviceID, rr.objectID, rr.t, rr.t$ ) to  $ATT$ 
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