Algorithm 2 findPath(Probabilistic distance-aware graph model G_{pdm}, Tracking record tr, Tracking record tr')

$neighbors \leftarrow \emptyset$; $path \leftarrow 0$; $paths[] \leftarrow \emptyset$;
$R_s \leftarrow$ tr.deviceID
$R_d \leftarrow$ tr'.deviceID
$findAllPaths(G_{pdm}, R_s, R_d, paths)$
for each path p in $paths$ **do**
    $T_{cal} = 0$
    for each reader R in path p **do**
        $R' \leftarrow$ the next reader in $path$
        if $(R' = R_d)$ **then**
            $mtt \leftarrow G_{edd}.\mathcal{L}_E(R, R').tt$
            $mdt \leftarrow G_{edd}.\mathcal{L}_V(R').dt$
            $T_{cal} = T_{cal} + mtt + mdt$
            break
        $mtt \leftarrow G_{edd}.\mathcal{L}_E(R, R').tt$
        $T_{cal} = T_{cal} + mtt$
    if ($tr.t_e + T_{cal} > tr'.t_s$) **then**
        delete p from $paths$
for (all paths $\{\delta_m\}_{m=1}^{n}$ in $paths$) **do**
    $path = \underset{m}{\operatorname{argmax}} \prod_{E_{ij} \in \delta_m} p_{i,j}$
return $path$