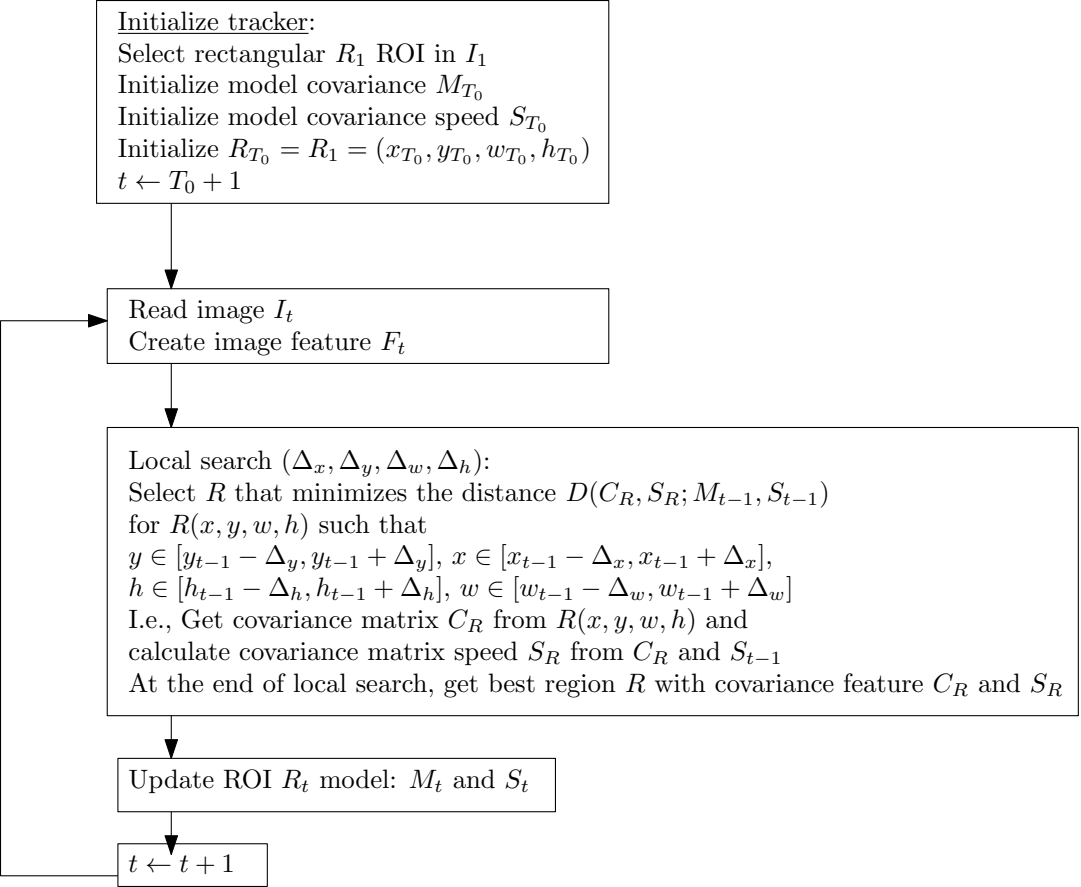
Initialize tracker:
Select rectangular R_1 ROI in I_1
Initialize model covariance M_{T_0}
Initialize model covariance speed S_{T_0}
Initialize $R_{T_0} = R_1 = (x_{T_0}, y_{T_0}, w_{T_0}, h_{T_0})$
$t \leftarrow T_0 + 1$
Read image I_t
Create image feature F_t
Local search $(\Delta_x, \Delta_y, \Delta_w, \Delta_h)$:
Select R that minimizes the distance $D(C_R, S_R; M_{t-1}, S_{t-1})$
for $R(x, y, w, h)$ such that
$y \in [y_{t-1} - \Delta_y, y_{t-1} + \Delta_y]$, $x \in [x_{t-1} - \Delta_x, x_{t-1} + \Delta_x]$,
$h \in [h_{t-1} - \Delta_h, h_{t-1} + \Delta_h]$, $w \in [w_{t-1} - \Delta_w, w_{t-1} + \Delta_w]$
I.e., Get covariance matrix C_R from $R(x, y, w, h)$ and
calculate covariance matrix speed S_R from C_R and S_{t-1}
At the end of local search, get best region R with covariance feature C_R and S_R
Update ROI R_t model: M_t and S_t
$t \leftarrow t + 1$