```
Algorithm 4 Run texton framework
 1: procedure Run_Trexton
          t \leftarrow t + 1
 2:
          I_t \leftarrow \text{Receive\_Img\_from\_Webcam}
 3:
          I_t \leftarrow \text{STANDARDIZE\_IMAGE}(I_t)
 4:
          \mathcal{H}_t \leftarrow \text{Get\_Histogram}(\widetilde{I}_t)
 5:
          z_t^x, z_t^y \leftarrow \text{PREDICT\_POSITION}(\mathcal{H}_t)
 6:
7:
          f_t^x, f_t^y \leftarrow \text{CALC\_FLow}(I_t)
          \mathcal{X}_t \leftarrow \text{PARTICLE\_FILTER}(\mathcal{X}_{t-1}, z_t^x, z_t^y, f_t^x, f_t^y)
 8:
          x_t, y_t \leftarrow \text{Weighted\_Average}(\mathcal{X}_t)
 9:
          SEND_Pos(x_t, y_t)
10:
```