

Frame  $t: \mathbf{F}_t$ 

**Observation** 

FoV at frame t-2: FoV at frame t-1: FoV at frame t:

Input:

Panoramic Video

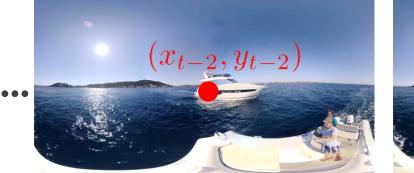
Frames  $\{\mathbf{F}_t\}_{t=1}^T$ 

Frame t-2 :  $\mathbf{F}_{t-2}$ 

Frame t-1:  $\mathbf{F}_{t-1}$ 



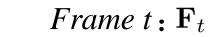
HM Positions  $\{(\hat{x}_t^1, \hat{y}_t^1)\}_{t=1}^T$ : HM Scan-paths  $\{(\hat{\alpha}_t^1, \hat{\nu}_t^1)\}_{t=1}^T$ : previous • • current • •••••

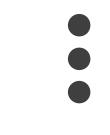




Frame t-1:  $\mathbf{F}_{t-1}$ 







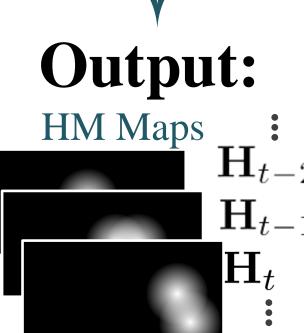
HM Scan-paths  $\{(\hat{\alpha}_t^N, \hat{\nu}_t^N)\}_{t=1}^T$ : HM Positions  $\{(\hat{x}_t^N, \hat{y}_t^N)\}_{t=1}^T$ : previous • • current • •••••







Frame  $t: \mathbf{F}_t$ 



**HM** Position

Integration &

Smoothing

## HM Position Prediction



