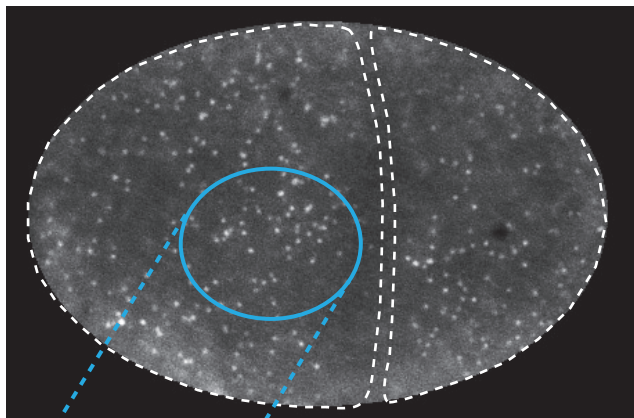
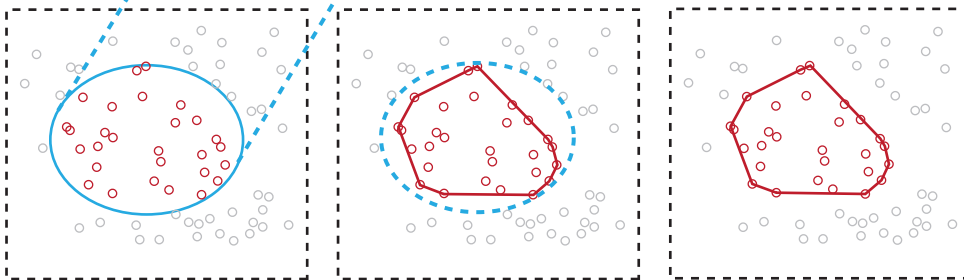


A



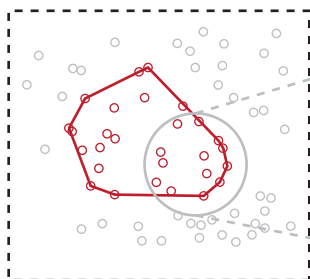
B



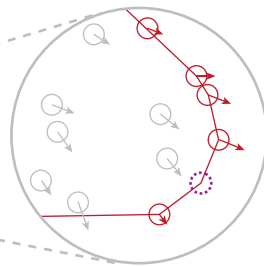
Identify single  
particles within  
elliptical region

Identify smallest convex polygon  
containing all particles within  
elliptical region to define a reference ROI

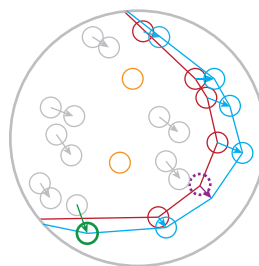
C



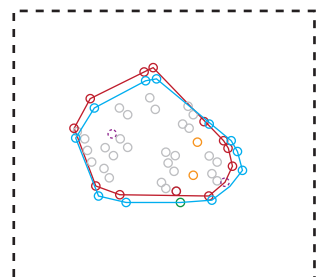
$\text{ROI}(t)$



Compute particle  
displacements  
and turnover



propagate ROI  
boundary



$\text{ROI}(t+\Delta t)$