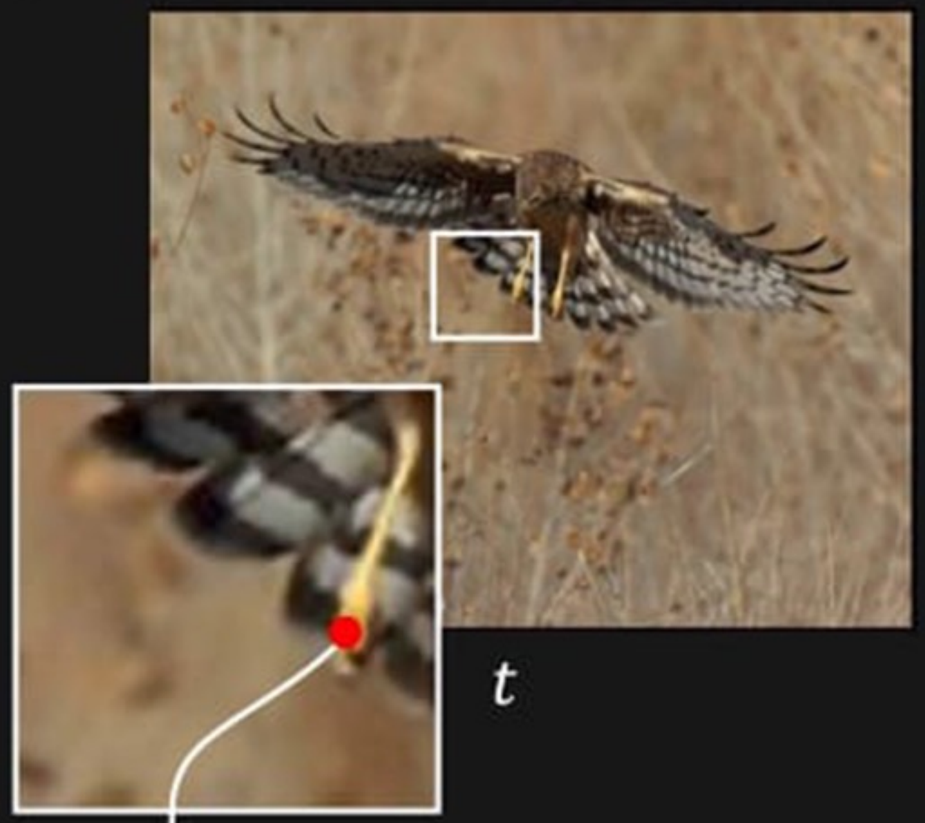
- Sequences of ordered images allow the estimation of motion as either instantaneous image velocities or discrete image displacements.
- The optical flow methods try to calculate the motion between two image frames which are taken at times t and $t+\Delta t$ at every position.

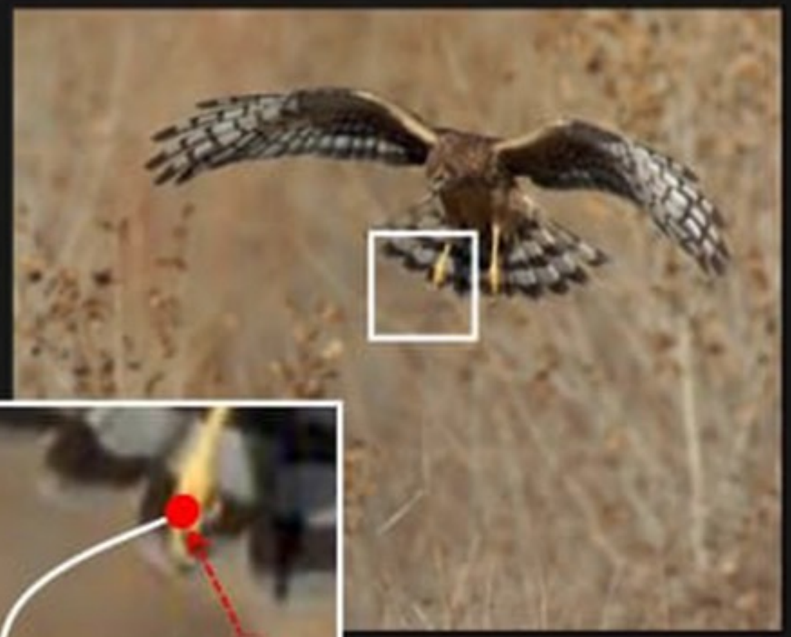
Estimation:

Optical Flow



t

(x, y)



$t + \delta t$

$(x + \delta x, y + \delta y)$

Displacement: $(\delta x, \delta y)$

Optical Flow: $(u, v) = \left(\frac{\delta x}{\delta t}, \frac{\delta y}{\delta t}\right)$