Dense Motion Estimation

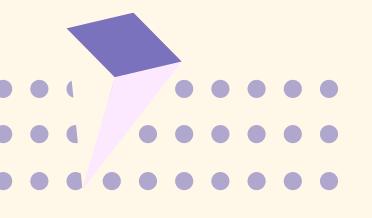
Simplified

MOTION ESTIMATION TECHNIQUE

- >Feature Based Methods
- Extract Visual Features (Corners, Textured
 Areas) and track them over multiple frames.
- Sparse motion fields,but more robust tracking.

MOTION ESTIMATION TECHNIQUE

- >Direct, dense methods
- •Directly recover image motion at each pixel fromp spatio-temporal image brightness variations.
- Dense motion fields, but sensitive to appearance variations
- •Suitable for video and when image motion is small



DENSE MOTION ESTIMATION

- A Suitable Error Metrics Must First be chosen to compare the images.
- •A Suitable Search Technique Must Be Devised (Full Search/hierarchical coarse-to-fine) technique.
- •For More complex motion, piecewise parametric spline motion model can be used.