

Lucas-Kanade Registration Algorithm

- **Definition of registration**
(not just for translation)
- **Status of Lucas-Kanade among other algorithms**
One of the best optical flow computation methods
Gradient-based method
- **Merits of the original Lucas-Kanade**
Speed (original intension, not referred to now)
Weighted confidence of disparity
- **Framework for general problems**
For handling various transformations, illumination changes.

Questions

- What unique or novel characteristics does Lucas-Kanade have?
- Originally Lucas-Kanade was proposed as a registration method. Now many literatures site Lucas-Kanade as a method for optical flow computation, too.

How registration is related to optical flow computation and to motion detection?

- How do you extend Lucas-Kanade to compute optical flow?
- What problems do you find in the paper?