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BASED ON LUCAS-KANADE ALGORITHM OBJECT DYNAMIC IDENTIFICATION APPLICATION

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Abstract

Computer vision is a dynamic scientific discipline. One of the most important objectives of the computer vision is real-time object tracking. A basis of the developed algorithm is the differential local method of Lucas and Kanade [1]. This method allows to keep track of point features in the frame sequence. The aim of this degree work is to develop a program that implements this functionality: able to read a video-stream from a laptop's built-in camera, in the presence of a human hand on the frame, program will display the number of unbent fingers.

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Bibliography

[1] Takeo Kanade Bruce D. Lucas. *An Iterative Image Registration Technique with an Application to Stereo Vision.* Computer Science Department Carnegie-Mellon Universit, Pittsburgh, Pennsylvania 15213, 1981.