Pocitacove Videnie

Kamil Adamišín, Michal Budiš, Jakub Karľa

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Algorithm 1: Compute optical flow using Lucas-Kanade method

Data: Image1, Image2, Found points

Result: New points computed with vector containing u,v

CalculateLucasKanade ($Image1, Image2, FoundPoints$)

    initialization;

    compute partial derivations of x,y,t;

    set window size;

    foreach $point\ p\ in\ FoundPoints$ **do**

        get x,y of p;

        get computations in window;

        get matrix A,b;

        get vector containing u,v;

        set p.X = p.X+u;

        set p.Y = p.Y+v;

        new points $\leftarrow p$;

    return $newpoints$;