Optical Flow Motion Estimation

**Goal:** Estimate the motion of objects in an image sequence.

**Description:**
The goal of this project is the estimation of a dense optical flow field, that is, for every pixel in the image a 2D motion vector is estimated for every frame. In the images above the motion field is visualized color-coded: the color encodes the motion direction and the intensity encodes the vector length.

The task is to reimplement method [1], which proposes a novel vectorial data term which improves the motion estimation of small-scaled structures.


**Requirements / Tools:**
Required: C++, some experience with image processing
Recommended: Good programming and math skills.

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