

Cline, Danelle

From: Edgington, Duane
Sent: Monday, June 25, 2007 4:23 PM
To: Boudet, Francois; Cline, Danelle
Cc: Edgington, Duane
Subject: two papers, on SIFT and an improved version PCA-SIFT

Francois,

I attach info on two papers for you to skim.

1) One paper is on SIFT from David Lowe; it is the one that I see people at conferences cite when they talk about SIFT. The original paper on SIFT, written by David Lowe in 1999, is cited in this paper.

The paper is available here

<http://courses.csail.mit.edu/6.869/handouts/Lowe04ijcv.pdf>

It is also on the AVED project library in the SIFT folder.

The code is available here:

<http://www.cs.ubc.ca/~lowe/keypoints/>

and matlab here:

<http://robots.stanford.edu/cs223b04/MatlabSIFT.zip>

The matlab for SIFT is also on Triggerfish (last year's intern installed it there...).

2) The second paper is a on an improved SIFT, called PCA-SIFT. There was recent work comparing SIFT and PCA-SIFT as the features for object recognition (in a 6 class recognition problem) presented at the conference I just attended. In that author's work PCA-SIFT was always better than SIFT. The author stated that she used SIFT and PCA-SIFT code from the original authors (i.e. from David Lowe and from Yan Ke).

The source code for PCA-SIFT is available here:

<http://www.cs.cmu.edu/~yke/pcasift/>

the paper itself is available here:

<http://www.cs.cmu.edu/~yke/pcasift/pca-sift-cvpr-04.pdf>