582412 Image Processing, Spring 2003
Exercise 6

1. Process the two pixels at locations (x_1, y_1) and (x_2, y_2) by Hough transform. Calculate their representations in the ab-space. Calculate their crossing point (a', b') in the ab-space. Show that the crossing point defines the line that goes through (x_1, y_1) and (x_2, y_2) in the original image.
2. Define opening using only dilation.
3. Apply closing for the image given below.
4. Show, that $(A \bullet B)^c = (A^c \circ \hat{B})$ holds.
5. In lecture notes, an algorithm for calculating D_8-transform is given. Modify that algorithm so that the modification calculates D_e-transform.
6. Within a week after the examination, fill the class feedback form available at: http://ilmo.cs.helsinki.fi/kurssit/servlet/Valinta.
Having done that let me know about it by filling the simple form at: http://www.cs.helsinki.fi/u/klemstro/kk-k03/feedback_conf.html
for 1 "extra" exercise point.
7. Take part in the "poster session" on April 1 at C454 between 11 am and 2 pm. Sign up to me there for another extra exercise point.