Multimedia Communication Systems 2

Multimedia Content Analysis

Mini Project 4: Contour signals

Download and extract "MP4_Contour_signals.zip"

In this exercise you will learn how object contours can be smoothed by discarding high frequency coefficients.

- Complete the function getContourSignals.m which has a contour image and a starting Point as input. The Output should be to one dimensional contour signals m and n (cp. MMC2 script chapter Contour and Shape Analysis).
- Complete the function lowpass.m which has a DFT spectrum and a cutoff- frequency as input. The output should be the lowpass-filtered DFT spectrum.
- Complete the script Exercise4.m.

Files:
getContourSignals.m, lowpass.m, Exercise4.m - files to complete

Functions that help a little to plot the results:
- plot_dft_amplitude.m, plot_dft_phase.m, plot_lowpass.m, plot_m, plot_n

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Feedback or Questions?

You can contact us via e-mail or visit us at the *Institut für Nachrichtentechnik* during our office hours.