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| Name of the subject: Signal processing II | NEPTUN code: KMXJK6ABNE | Weekly hours: 1 2 lec+ 2 gs+ 0 lab | Credit: 3 Req: Examination |
| Subject leader: Dr. József Neszveda | docent | Prerequisites: | |
| Description of the subject: | | | |
| <p>Parameters of stochastic signals in amplitude domain (amplitude distribution and density functions) Typical signals. Parameters in time domain (auto- and cross correlation functions), methods of measurement/calculation. Parameters in frequency domain (auto- and cross- power spectra) Rule Wiener-Hinchin. Calculation of correlation functions by utilization of FFT.</p> <p>Methods of image processing: thresholding, filtering in space domain, filtering in frequency domain. Measuring distances, area, circle diameter in gray-scale and in binary images. Calibration of camera. Pattern and character recognition. Bar-code reading.</p> | | | |
| Literature: | | | |
| <p>S. V. Narasimham, S. Veena> Signal processing> principles and implementation, Google books Rafael C. Gonzales, Richard E. Woods. Digital Image Processing, Google books ISBN 0-13-168728-x Desmond J. Higham, Nicholas J. Higham: Matlab Guide, ISBN-10: 0-89871-578-4, Google books</p> | | | |