

EINLADUNG

Zeit: Dienstag, 21. September 2010, 14.00 Uhr

Ort: Raum 5052, Ahornstr. 55

Referent: Prof. Dr. Ashish Ghosh
Indian Statistical Institute, Kalkutta, India

Titel: Object detection from video sequences, and target
recognition from remotely sensed images

Abstract:

The lecture will have two parts. The first part will be dealing with video object segmentation using Markov Random Field (MRF) model. Normally MRFs are used to model spatial regularity of image pixels. Maximum A'posteriori Probability (MAP) estimate gives the segmented version. We propose a new way of modeling the temporal regularity (both in gray values and edge strengths) also along with spatial regularity using MRFs. Results are found to be better having less effect of silhouette.

The second part will discuss about a technique for target recognition from remotely sensed images. Normally Principal Component Analysis (PCA) is used for dimensionality reduction in target recognition. In this work we propose to use 2D-PCA for dimensionality reduction. 2D PCA works directly with the image matrix and thus requires less time. Neural networks are used for classification. Experimental results show that the technique is very fast and efficient with respect to accuracy.

Es laden ein: Die Dozenten der Informatik