Class04

Advanced Image Processing
Data and Web Mining
Biomedial Image Processing

305541 Data and Web Mining

Data mining terminology and concepts; data preparation process; data mining task analysis; classification and prediction; clustering; genetic algorithms; fuzzy sets; rough sets; artificial neural networks; association and rule generation; frequent itemset algorithms; correlated items; matching and mining event sequences; web content mining; web structure mining; web usage mining

Assignment04

1. Study one type of artificial neural networks.
2. Prepare the presentation in ppt
3. Present next Friday

305513 Advanced Image Processing

Multiscale image decomposition and wavelets; image noise models; image edge detection; color and multispectral image representation; multiscale denoising of photographic images; nonlinear filtering for image analysis and enhancement; image quality assessment

Assignment04

1. color/multispectral image representation. Then, write a program.
2. Prepare the presentation in ppt
3. Present next Friday

305613 Biomedical Image Processing

Digital signal processing in biomedical work; biomedical data acquisition; biomedical image reconstruction; image processing for biomedical images; computed tomography; Magnetic Resonance Imaging (MRI); other biomedical image modalities

Assignment04

1. Group Study: Study MRI.
2. Prepare the presentation in ppt
3. Present next Friday