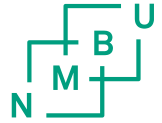


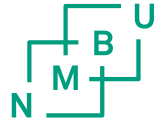
Exam like questions

- Name two texture feature algorithms
 - What is the limitation of a first order texture feature method ?
 - What does PCA stand for ?
 - Explain how PCA can be described as a change of coordinate system
 - What is the principle of K-means clustering
 - What is the difference between a supervised and non supervised classification
-



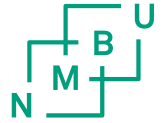
Digital images

- What is a digital image ?
 - What is a CCD ?
 - What is image processing ?
 - Explain reflection and absorption of light
 - Explain spatial resolution, intensity resolution, temporal resolution
 - Relation between bits and gray level tones
 - Image formats: Raw, JPEG, TIF, PNG
-



Histograms and point operations

- What is a histogram ?
 - What is histogram binning ?
 - What is a cumulative histogram ?
 - What is histogram equalisation ?
 - Name a few point operations
 - What is the principle behind Otsu threshold ?
-



Exam like questions

- What is a hyperspectral camera ?
 - Explain how supervised classification can be used to select regions of different materials in a hyperspectral image
 - Name some algorithms for supervised classification
 - Explain what is meant by unfolding a spectral image
 - How do you select number of components for a PCA analysis ?
-

- What is a hyperspectral image ?
 - What kind of cameras are used for hyperspectral imaging
 - Give some examples of research one can do with hyperspectral imaging
 - Describe how PCA works on a hyperspectral image
 - Describe how k-means clustering works
 - Describe supervised classification
-