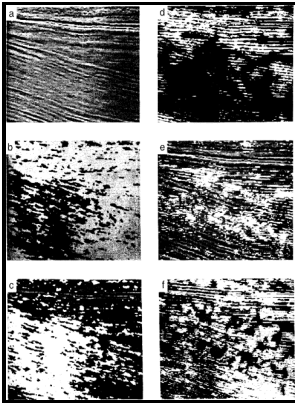# Basic concepts of computerized digital image processing for geologists

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Notes: Bibliography: p. 16.
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Basic concepts of computerized digital image processing for geologists : descriptive introduction to the terms and basic concepts of a computerized digital image processing system designed for geologic research (eBook, 1979) [me.stfw.info.cdn.cloudflare.net]

Radiometric corrections are transformation on the data in order to remove error, which are geometrically independent. This artificial background image can then be subtracted from the specimen image. Also, the supervised approach is subjective in the sense that the analyst tries to classify information categories, which are often composed of several spectral classes, whereas spectrally distinguishable classes will be revealed by the unsupervised approach.

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This is mostly white with black pixels. Sharpening Convolution Filters In direct contrast to the action of smoothing convolution filters, sharpening filters are designed to enhance the higher spatial frequencies in a digital image, while simultaneously suppressing lower frequencies. This method is sometimes called Tapered Quantization.

Image Analysis and Computer Vision

Because sharpening filters also suppress low frequency detail, these filters can be used to correct shading distortion throughout an image that is commonly manifested in the form of slowly varying background intensities.

Digital Image Processing

The key is in your perception. It is simply to do with the strength of the blacks on the photo.

Image Processing Syllabus CSIT

The course script can be used in as far as you find it useful to further explain what is in the slides.

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The mask contains only the 0 and 1 values representing black and white respective.

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