
Parallel Processing of Images Represented by Linguistic Description in Databases

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This paper concerns an application of parallel processing to color digital images characterized by linguistic description. Attributes of the images are considered with regard to fuzzy and rough set theories. Inference is based on the CIE chromaticity color model and granulation approach. By use of the linguistic description represented in databases, and the rough granulation, the problem of image retrieval and classification is presented.

Keywords: parallel processing, image processing, linguistic description, databases, fuzzy and rough sets, information granulation, CIE chromaticity color model.