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Classification of Patterns on High Radution SAR Images

Septhetic Apexture Radar(SAR) images taken via SAR sensor are capable of recreating a regardless of the current weather condition Classifying patterns I objects like water l vehicles play a prominent usage etc. Classification is done in three primary steps. The first one is image denoising This is done due to loss of fine detail from speckle noise. This can be achieved to a great extend by applying differentially the smoothing over the image regions after checking whether they are homogeneous or odge regions. Here Non-Local means a gonithm is used for denoising for the next step which is feature extraction Local Binary Patterns is used by considering pixel intensity difference. Image is quantized then split into 3 matrices. Each past represents apace are used as feature vectors. Patterns are segmented via LBP, RGB & HSV. Output obtained from ANN classifier is thresholded according to final pattern (target pattern). Each pattern classified à colour coded for cose of use. Broposed cystem uses a Jusion of three feature