ABSTRACT

Requirement to storage and small bandwidth become a trend which of vital importance at the time of an amount digital data was kept or transmited. For overcome of that, conducted with digital citra compression before it was kept or transmited, and decompression of compression data at the time of represented or after transmission conducted. But if traced more detail, in an citra specially eye citra, there is certain area which vital importance to analyse and there is also area which not too required.

At this thesis developed by Adaptif Region Of Interest (RoL) concept to overcome it. This compression use compression method being based on DCT (Discrete Cosine Transform) and the scalar quantization. Expected with existence of applying RoI earn to minimize the level of sent data but don't influence the quality of citra to be analysed in target.

To see efficacy of applying of adaptif RoI compression at the time of implementation hence will be conducted by measurement MSE (Mean Sequare Error), PSNR (Peak Signal To Noise Ratio) and ratio compression at compression result citra.

Keyword :citra compression, *Discrete Cosine Transform(DCT),Region of Interes (RoI)*, adaptif RoI, scalar quantization

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