EE5490: Image Signal Processing

Lab-7

Data De-correlation properties of WHT and DCT for Markov-1 process

Mar. 10 (Batch-A) and Mar. 14 (Batch-B)

Assume a Markov-1 process with covariance matrix R of size 8×8 and $\rho = 0.91$. Compute the Energy Packing Efficiency and De-correlation Efficiency of the Walsh-Haddamard Transform and Discrete Cosine Transform for the above process. What is your observation about the eigenvectors of R in relation to the DCT?

–end–