

SAN JOSE STATE UNIVERSITY
DEPARTMENT OF ELECTRICAL ENGINEERING

HOMEWORK No.3 – Due Mar. 9

Problem 1

Compute the DCT and IDCT on a 4×4 image matrix, as shown on the slide#7 in the Lecture Note #4.

List your well-commented source code and attach filtered output images.

Problem 2 (Use Matlab or any language of your choice for this problem; Attach well-commented source code and the input and output images.)

Do the exercise of finding and plotting 16 basis functions for 4×4 DCT, as shown on the slide#11 in the Lecture Note #4.

Problem 3

Find and plot 16 basis functions for 4×4 Walsh Hadamard Transform.

Problem 4

TBA