

Worksheet/Homework for Lecture 14/15

Comments and/or partial solutions are due by Monday morning. Full solutions are due by Thursday night.

Problems:

1. Consider the signal $x = [1, 4, 2, 3, 6, 4, 9, 10]$. Let s, d be the trend and detail for the $CDF(2, 2)$ transform applied to x . What is $s[2]$? What is $d[3]$?
2. Give an expression for the matrix DUP using matrix multiplication (i.e. the $CDF(2, 2)$ analysis matrix, ignoring the "split" part).
3. Write down a wavelet basis for the $CDF(2, 2)$ transform in the case $N = 8$.