



CDI15 / Exam / 19.6.2015

Theory topics

1. Entropy and information (T2).
2. Conditional entropy and information (T2).
3. Source coding. Prefix codes (T3).
4. The noiseless coding theorem (T3).
5. Optimal codes and the Huffman's algorithm (T3).
6. Segment probability coding (T4).
7. Arithmetic coding and decoding (T4).
8. Haar transforms (T6).
9. Haar scaling and wavelet functions (T6).
10. Haar multiresolution analysis (T6).
11. Daub4 wavelets (T7).
12. Daub4 wavelet transforms (T7).
13. Wavelets and image compression (T6,T7).
14. DCT and image compression (T8).