

Figure 20: Bar chart for corr2:

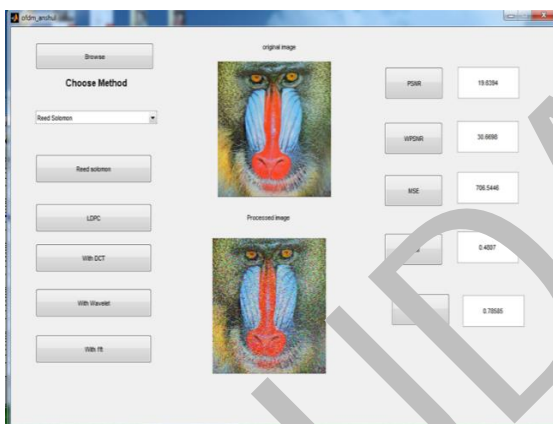


Figure 21: GUI of the recommended mode

III. CONCLUSION

OFDM is a very attractive technique for multicarrier transmission and has become one of the standard choices for high speed data transmission over a communication channel. It has various advantages; but also has one major drawback: it has a very high PAPR.

In this project, the different properties of an OFDM System are analyzed along with DCT and DWT. The simulation results shows that the DWT gives better result than the DCT. We found a constant higher PSNR in DWT. It shows the greater efficiency.

REFERENCES

[1] R.W. Chang, "Synthesis of band-limited orthogonal signals for multichannel data transmission", Bell System tech. 1966.

[2] B.R. Saltzberg, "Performance of an efficient parallel data transmission system", IEEE trans. Comm., 1967.

[3] S.B. Weinstein and P.M. Ebert, "Data transmission by frequency-Division multiplexing using the discrete Fourier transform", IEEE, 1971.

[4] A. Peled and A. Ruiz, "frequency domain data transmission using reduced computational complexity algorithms", in proc. IEEE, 1980.

[5] Radio broadcasting systems; digital audio broadcasting (DBA) to mobile portable and fixed receivers, European Telecommunications Standards Institute Workshop, France 1995.

[6] T.K. MILLER et al. Report on digital audio radio laboratory tests. Technical report, Electronic Industries Association May 1995.

[7] R. C. Gallager, "Low density parity check codes", IRE Transaction Information Theory 8, 21, 1962.

[8] H. Futaki, and T. Ohtsuki, "Low-Density Parity-Check (LDPC) Coded OFDM systems", IEEE, 2001.

[9] I.M.Arijon and P.G.Farrall, "Performance of an OFDM system in frequency selective hannels using Reed-Solomon coding Schemes", IEEE, 1996.

[10] Q. Zhang, W. Zhu, Zu Ji, and Y. Zhang, "A Power-Optimized Joint Source Channel Coding for Scalable Video Streaming over Wireless Channel," IEEE ISCAS'01, May, 2001, Sydney, Australia.