Chapter 6

Comments an d Conclusion

Cbd data can be good modeled by wavelet shrinkage model with small number of parameters. Thus, data compression via wavelet shrinkage modeling can be done for cbd data.

The choice of an appropriate basis in accordance to the data characteristic can increase the approximation quality. One way to aid in choosing an appropriate basis is by providing graph from the original data. From this graph we can guess which basis that appropriate to the data.

The level of resolution choice in which the approximation is done is essential. For first trial, medium resolution level is recommended.
If the approximation quality has not met the condition yet, we can take the following steps.

- If we choose hard thresholding as a cutting method, we have to put the resolution level on the lower level.
- If we choose hybrid (soft or SURE) as a cutting method, put the resolution level on the higher level.

The choice of thresholding technique plays an important role in obtaining a good result. Combination of hard thresholding and hybrid thresholding (soft and SURE) as we have done in scenario 3 is very recommended. With hybrid, we clean up the data from noise, after that we reduce again its parameters by considering cut-off point for the approximation quality and compression.

Nowadays, our computer wavelet program only can be used to process integer data power two. This program can be developed for arbitrary data size by adding zero until it reaches the next integer power two data. We have tried this method and the result is good, but it needs more computer memory.

The compression schema I am doing now is for simple storing technique by storing the values and location of retained parameter of wavelet shrinkage.

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