Decoding complexity of conventional SC decoder is $O(N \log N)$ where as decoding complexities of folded, improved multiple folded and Stage reduced SC decoders are slight less than the conventional SC decoder. In addition decoding latency of stage reduced SC decoder is 50% less than conventional SC decoder.

8. Conclusion

In this brief, the overview of recent SC decoding methods is given and comparison of these methods with conventional SC decoding method is described on the basis of their bit error rate, decoding complexity and decoding latency. In short all these methods are better than the Conventional SC decoding method in all aspects i.e. BER, complexity and decoding latency. Furthermore we can conclude from this short brief that all these methods are best in their applications i.e. short block length or large block length.

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