Abstract

The critical issues that are serving as constraints in wireless communication particularly in mobile communication are bandwidth, storage memory and power. The speech transmission in wireless networks is associated with the reduction of extra information present in signal in such a way to preserve the quality and intelligibility of speech. To remove the redundancy and transmit the speech with acceptable quality, speech compression algorithms are deployed. Because of this reason the speech coding is and will be the most important research issue. This paper addresses the implementation of CELP coder having low computational complexity with acceptable speech quality and preserves the intelligibility. The coder is assessed in terms of quality for different kinds of speakers using PESQ, PSNR, Frequency Weighted SNRseg, and SNRseg.

References

Implementation of Low Complexity CELP Coder and Performance Evaluation in terms of Speech Quality


Index Terms

Computer Science
Wireless Communications

Keywords

CELP  LPC  Speech Coder  PESQ  PSNR  FwSNRseg  SNRseg