Abstract

In Voice over Internet Protocol (VoIP) system, the speech signal is degraded when passed through the network layers, since the best effort policy based IP network leads to the network degradations including delay, packet loss jitter. The transmission of voice over internet protocols requires signal processing for reliable & efficient performance over the communication platform.
The work in this paper presents the effect network degradation factors on VoIP system and the spectral analysis of the VoIP signal. The lab experiment is performed to realize the VoIP system and to obtain the degraded database. The spectral analysis of VoIP signal is performed through the various signal processing algorithms. The results are validated through the quality evaluation of the VoIP signal using perceptual evaluation of speech quality (PESQ) measurement for narrowband signal.

Reference

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Real Time Analysis of VoIP System under Pervasive Environment through Spectral Parameters


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Index Terms

Computer Science

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Key words

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WANem

Packet loss

Jitter

Delay

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