Abstract

The current growth of speedy voice transmission over Mobile Adhoc wireless networks has enabled the deliverance of multimedia broadcasting services to mobile users. They play a vital role in business environments where permanent access to network resources act as key factor.

This document is a survey of the voice communication in wireless networks. The various issues related to implementation of voice communication over the network such as reduced control overhead, minimum ete delay, reduced FLR, QOS, perceived voice quality are taken as a key factor. The scenario of using Automatic Repeat reQuest (ARQ) retransmission for two-way low-bit-rate voice communications over wireless Adhoc Network. Low delay constraint
may require that a corrupted retransmitted packet not be retransmitted again, thus there will be packet-errors at the decoder which results in voice quality degradation. In this report, we illustrate performance results relative to packetization scheme, coding schemes are discussed. In our study we analyze the service of Layered Coding (LC) and Multiple description Coding (MD) for supporting error resilient voice communication in ad hoc wireless networks. Simulation results show that our proposed scheme can effectively reduce the number of packet loss, reduces end to end delay and achieves QoS.

References

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Index Terms

Computer Science

Current Trends In Advanced Computing
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Adhoc Networks  End-to-end Delay  Frame Loss Rate  Forward Error Correction
Layered Coding
Multiple Description Coding
Voice Quality
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