Robust Speech Processing in EW Environment

Abstract

Speech communication in Electronic Warfare (EW) environment should be resistant to interception, masquerade and tolerant to communication channel errors. In this paper, we described an algorithm which provides speech compression, strong encryption, error tolerance and speaker authentication features. This Robust Speech Coder (RSC) is backward compatible with the existing codecs with capability to opt for additional features as and when required.

References


**Index Terms**

Computer Science

Security

**Keywords**

Robust Speech Coder (RSC)  Electronic Warfare (EW)  Authentication algorithm

Mixed Excitation Linear Prediction (MELP)