

# A Study on the Performances of CELP Speech Coding at Low Bit Rates

Adriana STAN

## **Abstract**

*The results presented in this study are intended to offer a short theoretical overview of the problems related to the Code Excited Linear Prediction (CELP) coder, and practical issues related to the software implementation. A series of performance test results of the CELP coder will also be presented. The results regard the coder's performances in different situations, such as: different signal-to-noise ratios of the input signal, coding the vowels and consonants, the differences between female and male utterances and the coder's ability to re-synthesize a CELP synthesized signal.*