Influence of the Variation of Parameters on the Turbo Codes’ Performances

Abstract

This paper aims at illustrating the influence of the change of parameters on the performances of the Turbo Codes in a transmission chain with AWGN. To this end, we used the MAP algorithm as a decoding algorithm. This is how we found that the variation in some parameters necessary in the construction of the Turbo Code such as the width of the information frame, the use of High Stress Length Decoding, the use of decoding in low yields, the choice of the generating code, and finally the increase of the number of iterations improved significantly the performances.
References


Index Terms

Computer Science

Signal And Computer

Security

Keywords

Turbo Code  Algorithm Map  Interleavers