



International Journal on Recent Researches In Science, Engineering & Technology

A Journal Established in early 2000 as National journal and upgraded to International journal in 2013 and is in existence for the last 10 years. It is run by Retired Professors from NIT, Trichy.

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Research Paper

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ISSN (Print) : 2347-6729

ISSN (Online) : 2348-3105

Volume 2, Issue 2,

February 2014

DIIF IF :1.46

SJIF IF: 1.329

Study of turbo decoding techniques

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Abstract - It has been observed from literature that, an overview of the novel class of channel codes referred to as turbo codes , which has been shown to be capable of performing the decoding close to the Shanon limit . First a brief discussion of turbo encoding is given , and then move to describe the form of the iterative decoder most properly used to decode turbo codes . various decoding algorithms that can be used in an iterative decoder are discussed , and an example of the operation of such a decoder using the so called Soft Output Viterbi Algorithm (SOVA) is given . Lastly , the effect of a range of system parameters is investigated in a systematic fashion , in order to gauge their performance ramifications .