

## SOME RESULTS ON T-DIRECT CODES

*W.B. Vasantha Kandasamy and R.S.Rajadurai*

The class of T-Direct codes is a partial generalization to the so-called LCD codes. In this paper we produce some results on T-Direct codes. A sufficient condition for a set of T F-ary linear codes to constitute a T-Direct code (of length  $n$ ) in such a way that the resulting codes constitute a T-Direct code (of length  $> n$ ). Also we present two applications of T-Direct codes, viz., an application over the noiseless T-user F-Adder channel and an application, which reduces the nearest-neighbor decoding to the simpler problem:

for any  $i$ , given a word in  $\Gamma_i^\perp$  find the nearest codeword in  $\Gamma_i$  is the constituent code of a T-direct code.