BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI Tomul LII(LVI), Fasc. 1-2, 2006 ELECTROTEHNICĂ, ENERGETICĂ, ELECTRONICĂ

SEMANTIC SOURCES ENCODING ON NOISELESS CHANNELS

BY VALERIU MUNTEANU and DANIELA TĂRNICERIU

In this paper we perform the encoding for semantic sources which are only qualitatively characterized, that is, each message the source delivers possesses a certain quality, importance or utility. The proposed encoding procedure is an optimal one, because it leads to maximum information per code word and it assures a minimum time for the transmission of the source information.