

**METHOD AND APPARATUS FOR CHANNEL ENCODING AND
DECODING IN A COMMUNICATION SYSTEM USING LOW-DENSITY
PARITY-CHECK CODES**

ABSTRACT

A method for a channel encoding in a communication system using a Low-Density Parity-Check (LDPC) code. The method includes dividing information bits into a plurality of bit groups; determining a number of information bits to be shortened; determining a number of bit groups to be shortened based on the determined number of information bits to be shortened; shortening information bits in the determined number of bit groups according to a predetermined order; and LDPC encoding shortened information bits.

(Figure 6)