

عنوان مقاله:

Forward Error Control using LDPC for MC-CDMA WIMAX Systems

محل انتشار:

هفتمین کنفرانس ملی مهندسی برق و الکترونیک ایران (سال: 1394)

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نویسندگان:

Amin Farajzadeh - Department of Electrical Engineering Urmia University of Technology (UUT) Urmia, Iran

Vahid Solouk - Department of IT & Computer Engineering Urmia University of Technology (UUT) Urmia, Iran

خلاصه مقاله:

The next generation of wireless communications is provisioned as the era of high speed multimedia services. With the IEEE802.16 series of standards, the conception of high data rates realizes the ubiquity at distances as high as 50 km. However, multimedia service at such distances are often accompanied by high speeds which in turn, are highly prone to error. High data rates are realized through effective error control coding. The current paper investigates the performance of implementing LDPC variations using probability-domain Sum-Product algorithm in presence of various modulations for wireless metropolitan area networks. The implemented model for modulations up to 16-QAM and different code lengths indicate acceptable level of error.

کلمات کلیدی:

IEEE802.16; LDPC; MC-CDMA; Code length; Sum-Product Algorithm

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